Pro-face®

GP Advanced

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The Pro-face Support Site, " Otasuke Pro! "

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Caution: Before operating any of these products, please be sure to read all related manuals thoroughly. Also, be sure that the panel's viewing angle is tilted no more than 30 degrees from parallel to the operator (i.e.directly in front).

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This is new product news. Contents may be subject to change without notice. Please consult with local Pro-face office prior to purchasing.

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AGP3000 SERIES

A New Concept in Graphic Operator Interfaces

Expanded line-up 19 models ranging from 5.7 to 15-inches

Introducing the concept of the "Manufacturing Command Center"

Please Open!
AGP-3750T
15-inch
Actual Size!

ISO14001 JQA-EM4257
ISO9001 JQA-1367
R100 100% RECYCLED PAPER

IP051118-AGP3000-01E12

Pro-face

www.pro-face.com

294mm

395mm

The AGP3000 Series Line-up is designed to maximize customer satisfaction.

Responding to customer needs with a wide array of options for every application

19 different models

Function ↓ Size →

5.7-inch (AGP-3300 Series)	7.5-inch (AGP-3400 Series)	10.4-inch (AGP-3500 Series)	12.1-inch (AGP-3600 Series)	15-inch (AGP-3700 Series)

AGP-3*01/3*02
Low-cost units providing the essential functions

- TFT: AGP-3300T — 65,536 colors — QVGA — DC
- STN: AGP-3301S — 4,096 colors — QVGA — DC
- Mono: AGP-3301L — Black & White (16 Shades) — QVGA — DC
- Blue mode: AGP-3302B — Blue & White (16 Shades) — QVGA — DC

- TFT: AGP-3300T — 65,536 colors — QVGA — DC
- STN: AGP-3300S — 4,096 colors — QVGA — DC
- Mono: AGP-3300L — Black & White (16 Shades) — QVGA — DC

- TFT: AGP-3450T — Available 2006. — 65,536 colors — VGA — DC
- TFT: AGP-3400T — 65,536 colors — VGA — DC
- STN: NEW STN Type — AGP-3400S — 4,096 colors — VGA — DC

- TFT: AGP-3550T — Available 2006. — 65,536 colors — VGA — AC
- TFT: AGP-3500T — 65,536 colors — VGA — AC DC
- STN: AGP-3500S — 4,096 colors — VGA — AC DC
- Mono: AGP-3500L — Black & White (16 Shades) — VGA — DC

- TFT: AGP-3650T — Available 2006. — 65,536 colors — SVGA — AC
- TFT: AGP-3600T — 65,536 colors — SVGA — AC DC

- TFT: AGP-3750T — NEW SIZE — 65,536 colors — XGA — AC

AGP-3*50
Sophisticated multimedia models with a variety of interfaces

AGP-3*00
Standard models providing all the performance required for the ideal human-machine interface

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Product Name		AGP-3302B	AGP-3301S	AGP-3301L	AGP-3300T	AGP-3300S	AGP-3300L	AGP-3450T	AGP-3400T	AGP-3400S	AGP-3550T	AGP-3500T		AGP-3500S		AGP-3500L	AGP-3650T	AGP-3600T		AGP-3750T
Model		AGP3302-B1-D24	AGP3301-S1-D24	AGP3301-L1-D24	AGP3300-T1-D24	AGP3300-S1-D24	AGP3300-L1-D24	AGP3450-T1-D24	AGP3400-T1-D24	AGP3400-S1-D24	AGP3550-T1-AF	AGP3500-T1-AF	AGP3500-T1-D24	AGP3500-S1-AF	AGP3500-S1-D24	AGP3500-L1-D24	AGP3650-T1-AF	AGP3600-T1-AF	AGP3600-T1-D24	AGP3750-T1-AF
Rated Voltage		DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V	AC100-240V	AC100-240V	DC24V	AC100-240V	DC24V	DC24V	AC100-240V	AC100-240V	DC24V	AC100-240V
Display Size		5.7-inch	5.7-inch	5.7-inch	5.7-inch	5.7-inch	5.7-inch	7.5-inch	7.5-inch	7.5-inch	10.4-inch	10.4-inch	10.4-inch	10.4-inch	10.4-inch	10.4-inch	12.1-inch	12.1-inch	12.1-inch	15-inch
Display Type		Blue-mode Monochrome LCD	STN Color LCD	Monochrome LCD	TFT Color LCD	STN Color LCD	Monochrome LCD	TFT Color LCD	TFT Color LCD	STN Color LCD	TFT Color LCD	TFT Color LCD	TFT Color LCD	STN Color LCD	STN Color LCD	Monochrome LCD	TFT Color LCD	TFT Color LCD	TFT Color LCD	TFT Color LCD
Display Color		Blue & White (16 Shades)	4,096 Color	Black & White (16 Shades)	65,536 Color	4,096 Color	Black & White (16 Shades)	65,536 Color	65,536 Color	4,096 Color	65,536 Color	65,536 Color	65,536 Color	4,096 Color	4,096 Color	Black & White (16 Shades)	65,536 Color	65,536 Color	65,536 Color	65,536 Color
Screen Storage Capacity		6MB FEPROM	6MB FEPROM	6MB FEPROM	6MB FEPROM	6MB FEPROM	6MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM	8MB FEPROM
Interfaces	Serial I/F (COM1/ COM2)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	USB I/F	1ch	1ch	1ch	1ch	1ch	1ch	1ch	1ch	1ch	2ch	2ch	2ch	2ch	2ch	2ch	2ch	2ch	2ch	2ch
	CF Card I/F	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Expansion Unit I/F*2	○	○	○	○	○	○	○	○	○	○*1	○*1	○*1	○	○	○	○	○	○	○
	Ethernet I/F	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	VM Unit I/F*2	—	—	—	—	—	—	—	—	—	○*1	○*1	○*1	—	—	—	○	○	○	○
	AUX/ Sound-out	—	—	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○
	Video-in I/F*2	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	○	—	—	○
	Sound-in I/F*2	—	—	—	—	—	—	○	—	—	○	—	—	—	—	—	○	—	—	○

*1. The VM Unit Interface and Expansion Unit Interface cannot be used at the same time.
*2. Upgrades of GP-Pro EX may be needed to support expansion Interfaces for each device. For more information, contact our local Pro-face office.

See pages 17–28 for detailed specifications, options, dimensions and part names. See pages 29–30 for system structure. ▶▶▶

This is the Manufacturing Command Center

Not just monitoring equipment and devices, but actually collecting, surveying, presenting and managing the data of your production processes.

Communications (External Devices & Field Networks)

Operation & Displays

Information

Pro-face displays give you insight and the power to manage.

Take Full command of Your Production Process.

CF Card Interface

CF Card **For data collection and backups.**

Improves the efficiency of recipe filing, data logging, and other data collection tasks.

Ethernet Interface

Ethernet **Collects field data through a host PC.**

Combine the AGP3000 Series with Pro-Server EX data management software to collect and use information in standard PC applications.

USB Interface (Host)

USB (Host) **Connects to a variety of devices.**

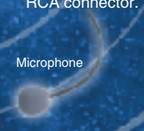
Allows connection to printers, bar code readers, and a variety of other devices. Also enables screen data transfers. Supported drivers are under development.

Video Input Interface

Under development

Video Input **Connects directly to a video camera.**

The provided interface connects to either an NTSC (59.9Hz) or PAL (50Hz) video camera via a 75-ohm RCA connector.



Sound in Interface

Under development

Sound in **Microphone connection interface.**

This interface accepts a microphone with a mini jack (3.5 mm dia.).

Expansion Unit Interface

Expansion Unit **Expansion Unit for effective networking now under development.**

Offers compatibility with the field network units from various manufacturers. And it provides a way to connect to existing networks.

Serial Interface

SIO 2ch **Simultaneous communication with up to four types of controllers.**

Programless connectivity is standard for Pro-face. Support is provided for various types of devices.

Can be connected to a PC or various other types of controllers.

Sound out Interface

Sound out **Use sound to broadcast equipment status.**

Outputs both audio and visual alarm guidance when an error occurs.

Note: Requires conversion to WAV format.

AUX Input/Output Interface

AUX **Can be connected to various types of devices.**

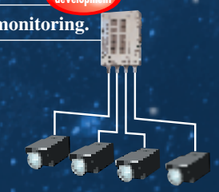
Can be connected to a lamp, buzzer, or reset switch of another peripheral device.

VM Unit Interface

Under development

VM Unit **Innovative image-based monitoring.**

Introducing visual monitoring of work details and conditions on the shop floor. You can also monitor from remote sites by connecting various types of monitors as well as the AGP3000 main unit to the interface.



The Pro-face HMI concept focuses on the display.
Our goal is to make the most of your current and future systems.

*Interfaces vary by model. Please see pages 1 & 2.

FOCUS ON CLARITY & VISIBILITY

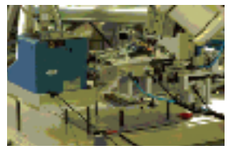
The clear and beautiful screen and high-quality parts greatly help workers in the field exercise good judgment on the job.

Point 1

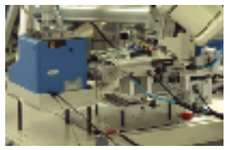
Images are appealing and the high-quality screen offers excellent visibility.

The AGP3000 Series (TFT type) displays 65,536 colors standard.

◎The subtle colors of JPEG and BMP files are clearly displayed at high resolution.
◎This is a standard feature and requires no additional equipment.

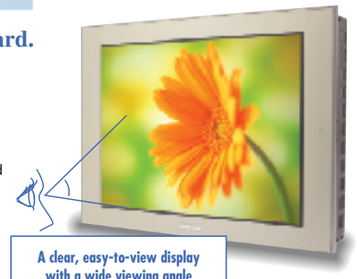


256-color TFT
Fine details are difficult to make out.



65,536-color TFT
Details are clearly displayed.

TFT color LCD:
65,536 colors standard
STN color LCD:
4,096 colors standard
Monochrome LCD:
16 shades of gray



A clear, easy-to-view display with a wide viewing angle

Point 2

Clear display, with free object placement.

All AGP3000 Series models feature an analog touch panel.

◎The analog panel improves visibility.
◎Because the screen has no grid, parts can be placed wherever desired.

Conventional model　　Analog touch panel

Point 3

The parts and text are clear and easy to see on the screen.

High-quality parts and stroke fonts are included.

◎Easy-to-see parts that are required in the field are included.
◎High-quality 3D parts.
◎Symbolic parts express concepts that can be difficult to explain with language.
◎Because stroke fonts can be used for text, you can freely choose the desired font size for the clearest text.

Beautiful fonts

Stroke font　　Image fonts

High-quality parts

3D parts　　Pictorial parts　　Symbolic parts

FOCUS ON FAST OPERATION

The performance of the AGP3000 effectively reduces the total number of steps. The result is faster design and maintenance as well as greater responsiveness and faster screen display in the field.

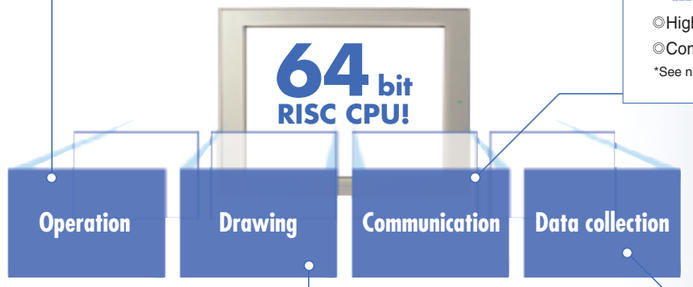
Point 1

Quick responsiveness for stress-free screen processing.

The AGP3000 Series uses a 64-bit RISC CPU for the fastest processing speed in the industry.

◎Smoothly processes large amounts of screen data.
◎Up-to-date specifications ensure a long service life.

· Large model: 266MHz (443 MIPS)　· Mid-size model: 133MHz (156 MIPS)



High-speed communications with more powerful interfaces

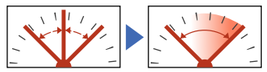
◎High-speed 2-ch serial port provided as standard.
◎Compatible with 100 Base-TX Ethernet interface.
*See next page for details.

High-speed data sampling

◎100ms Data sampling increases insight into your production.

Featuring a proprietary image processor

This processor ensures smooth drawing (larger models only).



Point 2

Great reduction in screen data transfer time.

The USB interface of the AGP3000 Series ensures high-speed data transfer.

◎The transfer speed is about 10 times that of conventional models. The result is a reduced number of development steps.
◎Easy maintenance

Data transfer connections are easier than ever.

Note: Transfer of 200 screens of 20 switches with lamps and 20 numeric displays.
(Compared to transfer with the GP2000 series tool connector)

FOCUS ON DEVICE CONNECTIONS

Pro-face's uniquely advanced approach to connectivity enables the AGP3000 Series to support existing equipment while accommodating future expansion.

More versatile interfaces are available.

A variety of interfaces are provided standard.

◎2-ch high-speed serial ports.
◎10 BASE-T/100 BASE-TX Ethernet.
◎These interfaces support expansion and system additions as well as connections to existing systems.

Various devices can easily be connected via USB.

USB interface x 2-ch standard (host).*

- The standard USB interface allows for connection to a wider variety of devices.
- Supported drivers are now being updated.

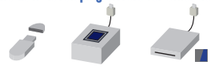
*1-ch for 7.5-inch and 5.7-inch types

Currently supported devices

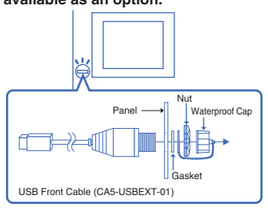
Printers** Barcode readers USB hubs

**Printers lacking a Centronics interface are also compatible (with restrictions).

In addition to the left, we are now developing drivers for other devices.

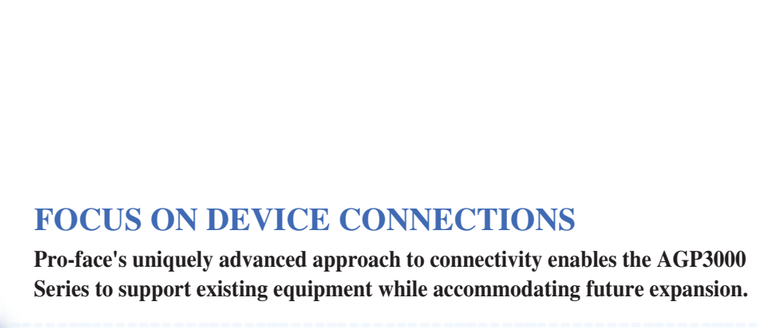


Useful front-mounting attachment is available as an option.



AUX/Sound Output Interface

Problems or errors are signaled by means of sound (WAV file) and by screen messages.



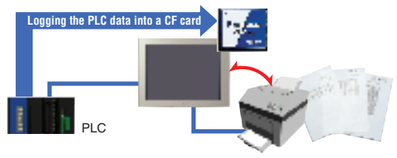
Note: These interfaces are for Model AGP-3750T. Available interfaces vary by model. See specifications for details.
*To be enabled via software update.

CF cards enhance the convenience of the AGP3000 Series.

The logging function increases the efficiency of documentation.

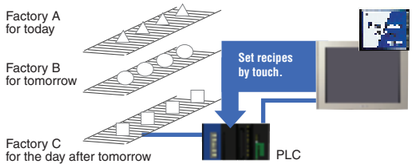
The PLC data can be saved to the CF card in the main unit and printed out directly from the main unit. This function can be used to create daily and monthly reports, or other documents.

Note: SRAM data can be output with the sampling print function.
CSV data on a CF card can be output with a CSV display.



The CSV data transfer function makes it easy to change the PLC's settings.

To transfer CSV file data to the PLC, simply select the recipes saved to the CF card on the touch panel in the main unit. This function can be used for recipes.



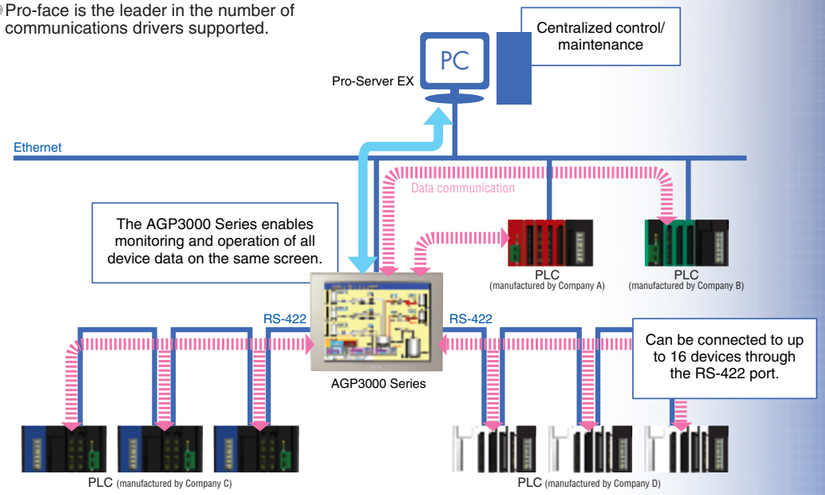
FOCUS ON THE NUMBER OF SUPPORTED COMMUNICATIONS DEVICES

The AGP3000 Series has been developed with an emphasis on compatibility with various devices with no programming required. Therefore, it is possible to maximize the use of new and existing equipment with the AGP3000 as the foundation.

Centralized control of various devices in a single display.

Simultaneous communication with up to four types of controllers*

◎AGP3000 Series can communicate simultaneously with four types of controllers and manage all the information with one display.
*The AGP-3300 Series enables simultaneous communication with up to two types of controllers.
◎Pro-face is the leader in the number of communications drivers supported.



Compatibility with various Temperature and Process Controllers, inverters, etc., is planned for the next version.

Pro-face emphasizes compatibility and supports a variety of communications devices.

Only Pro-face, the leader in the number of supported communications drivers, supports such a wide variety of models.

For the latest updates, please check our homepage or Connectable Devices list, or contact your local Pro-face office.

FOCUS ON RELIABLE OPERATION WORLDWIDE

The AGP3000 Series ensures reliable use worldwide with functions and complete support to overcome difficulties associated with languages and international standards.

Point1

The AGP3000 Series can be used worldwide with confidence.

All models of the AGP3000 Series comply with international safety standards.

◎All models comply with CE, UL, and other international safety standards.

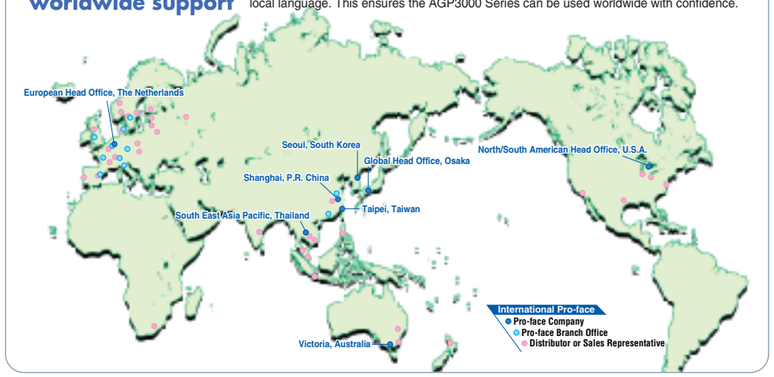
◎Pro-face offices worldwide ensure global reliability. Local support staff can respond quickly to repair requests.

RoHS Coming Soon!

Note: The AGP3000 Series also meets NEMA standards.
Note: Compliance with various standards differs by model. See pages 1 & 2 for details.

Comprehensive worldwide support

Pro-face offices are located around the world, so we can rapidly meet the needs of local customers. What's more, support staff can respond to repair orders or phone inquiries in the local language. This ensures the AGP3000 Series can be used worldwide with confidence.



Point2

The interface that solves language problems.

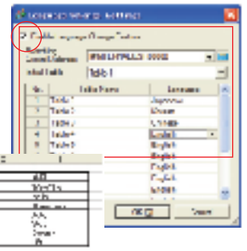
Language-switching function and Unicode compatibility

◎Because the AGP3000 Series displays text in Unicode, multiple languages can be displayed on-screen at once.

◎The language-switching function can be used to change the display language according to needs of the operator.

◎Various languages can be input using a single OS.

Note: Multiple languages cannot be mixed in one document.



Excel file

Features a wide selection of illustrations using only pictorial expressions, not language.

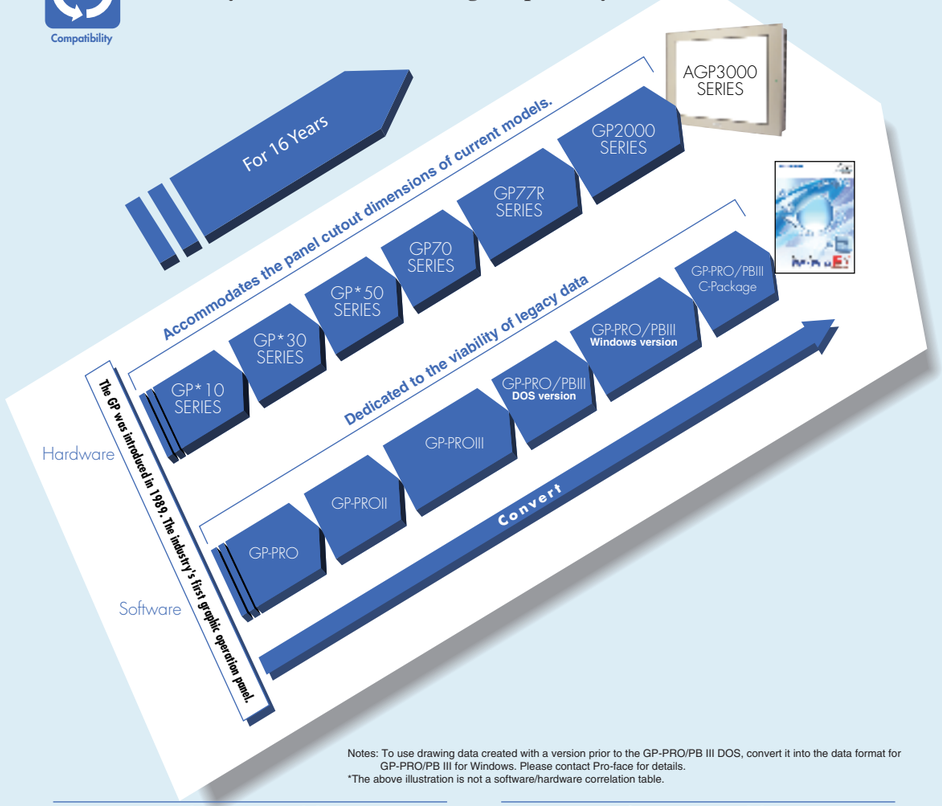
The pictorial parts make it possible to create easy-to-understand screens. The result is an international form of expression that overcomes language barriers.

An industry first

Designed for Compatibility

Compatibility

Our policy is to maintain our customers' investment in existing resources. That's why we focus on maintaining compatibility with hardware and software.



Notes: To use drawing data created with a version prior to the GP-PRO/PB III DOS, convert it into the data format for GP-PRO/PB III for Windows. Please contact Pro-face for details.
*The above illustration is not a software/hardware correlation table.

Hardware Compatibility

Accommodates the panel cutout dimensions of current models.

Pro-face products accommodate the panel cutout dimensions of existing models. In a single system, the display alone can easily be replaced with a new model.

Old model — New model

Panel cutout dimensions

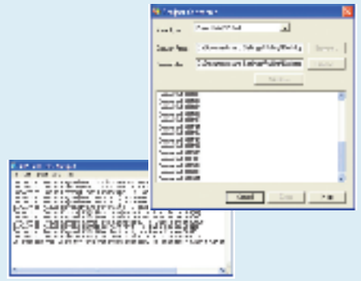
Size (mm) / Series name	191.5x141.5	156x123.5	204.5x159.5	259x201	301.5x227.5	383.5x282.5
GP77R Series	GP-37W2B	GP377R Series	—	GP-477RE	GP577R Series	—
GP2000 Series	—	GP230* Series	GP240* Series	—	GP260* GP250* Series	—
AGP3000 Series	AGP-3300 Series		AGP-3400 Series	AGP-3500 Series(TFT)	AGP-3600 AGP-3500(STN) Series	AGP-3700 Series

Note: Only the panel cutout dimensions of the AGP-3500 Series(TFT) are the same as those of the GP477RE. Replacing the GP2500 Series with the AGP-3500T requires an optional Panel Cutout Adapter.
Replacing the GP-37W2B with the AGP-3300 Series requires an optional Panel Cutout Adapter.

Software Compatibility

Data resources such as screen data can be reused.

With GP-Pro EX, screen data created with GP-PRO/PBIII (C-Package) can be easily converted. This function enables easy screen re-creation by employing existing screen data.



Note: To use data compatible with a version prior to GP-PRO/PB III with GP-Pro EX, convert it to GP-PRO/PBIII data.

Note: For more information on compatibility, visit our homepage.
www.pro-face.com/otasuke/

Screen Editor

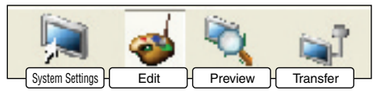
GP-Pro EX

GP-Pro EX simplifies the engineer's goal - combining design with functionality.
Now you can easily create ideal user interfaces.

Status Bar

Using the icons on the Status Bar, easily navigate through all screen design tasks, from settings to screen transfers.

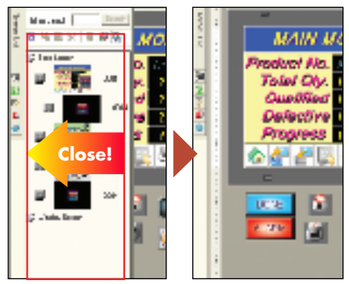
◎The Status Bar contributes to a smoother workflow
(System Settings ☞ Edit ☞ Preview ☞ Transfer).



Auto-hide feature

When you need a larger drawing area, you can easily enlarge the screen with just one touch.

◎This feature automatically hides the property area when you want a larger drawing area.



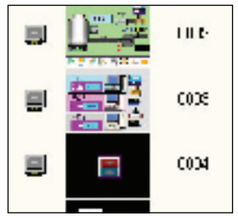
Thumbnail display

With the thumbnail display, you can select the screen you want to edit via visual navigation.

◎The thumbnail display shows screen images in real time as they are created.

◎To open a target screen, directly select the thumbnail.

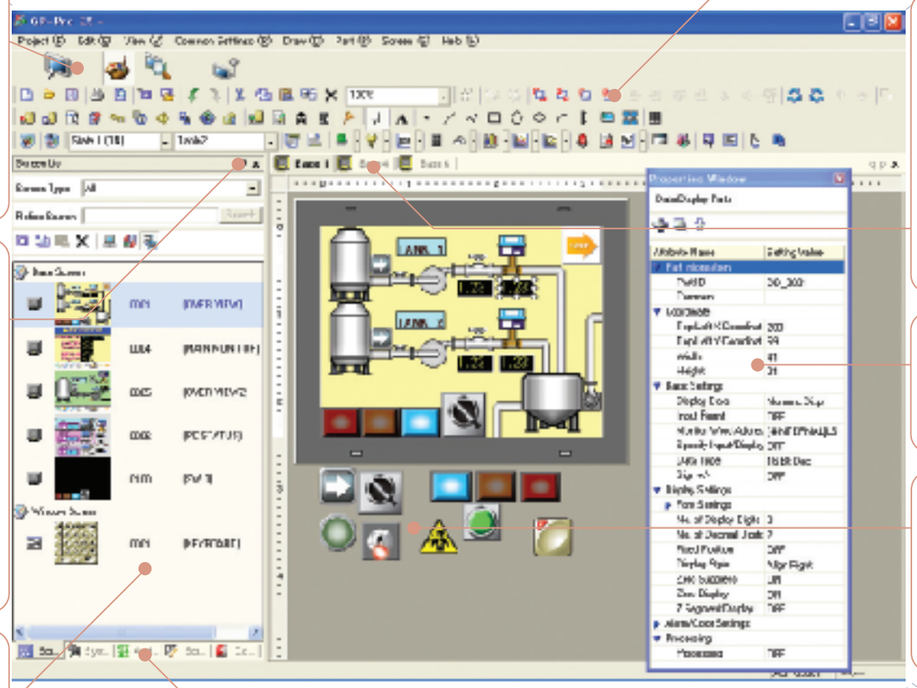
Note: Switching the display mode turns the thumbnail display or screen name ON/OFF.



Plus!

You can also view called screens.

If you use call screen parts, the call screen image is displayed lower in the screen list.



Icons

Select functions from clear, easily understandable icons.

◎Each function can be easily understood from its associated icon.

◎Navigating through functions using icons increases the efficiency of drawing.

Tab function

To switch to the screen to be edited, simply switch tabs.

◎Create a tab for system settings, text tables, etc.

◎Efficiently execute tasks in different categories, such as drawing, text tables, or alarm input.

Property window

All setting parameters can be edited in a single window.

◎Multiple objects with the same attributes can be changed simultaneously.

Temporary area

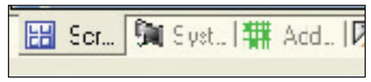
Parts can be placed outside the drawing area as a temporary area.

◎Frequently used parts and pictures can be placed outside the screen. Simply place the part outside the screen, thus increasing your work efficiency.

Workspace switching tab

Simply click the tab to easily switch workspaces.

◎By clicking a tab, you can switch to any workspace, including System Settings, Common Settings, or Address Map.



Screen List | System Settings Window | Address Settings | Screen Data List | Common Setting Window

- Use all drawing resources with ease.
- All features are integrated into parts. (tag program is now an integrated part)
- The user environment is intuitive.

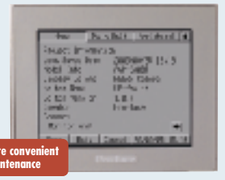
We're working to reduce of the number of steps in every operation.

An industry first

With the online updating service, you can always maintain the latest version.

Display project information on the main unit offline.

You can view drawing information on the display such as download data, download person, and edit software version. This feature makes maintenance even more convenient.



For more convenient maintenance

Operating Environment for GP-Pro EX

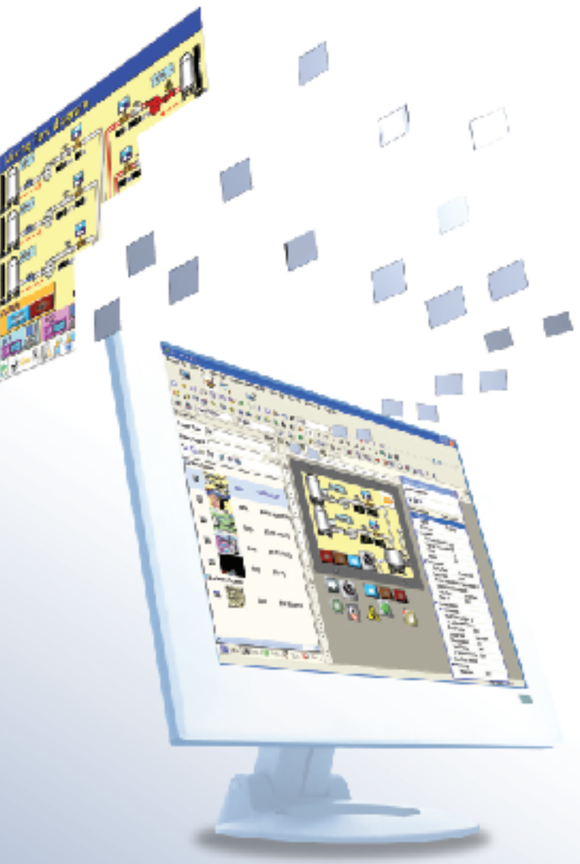
PC		PCModels on which Windows® runs normally
OS		Windows®2000 (Service Pack 3 or later)/ Windows®XP (Home Edition/ Professional Edition) *This product should be used after installation by a user account with administrator authority. *Administrator permission is necessary when you install this product.
CPU		Pentium®III 800MHz or more (Pentium®4 1.3GHz or above is recommended.)
Resolution		SVGA 800x600 or above is recommended. A display of 256 or more colors is required.
Memory		512MB or more (1GB or more is recommended.)
Hard Disk Space		420MB or more *Enough free space to install GP-Pro EX
Language	Software Menu	English, Japanese
	Languages that the GP can Display	English, Japanese, Korean, Simplified and Traditional Chinese. *To input languages other than English and Japanese for the "Languages that the GP can Display", you need to add each language's FEP and fonts.
Each Language's FEP		Windows®2000 (Service Pack 3 or later)/ Windows®XP (Home Edition/Professional Edition) supported FEP
Others		.NET Framework Ver.1.1 (Service Pack1 or later) *.NET Framework Ver.1.1 or later (Service Pack1 or later) automatically installs on a PC without it.
		Internet Explorer Ver.6.0 or later
		Adobe®Reader® Ver. 6.0.3 or later
		Keyboard, Mouse, CD-ROM Drive (necessary only at the time of installation) and printer which support the above OS
		Internet connection is required for the online update feature and the online user registration.

NOTE: This operating environment is valid as of November, 2005. Please consult with sales staff prior to purchasing.
When using a PC, USB port or Ethernet for downloading screen is necessary.

Operating Environment for Transfer Tool

PC	Models on which Windows® runs normally. Runs on PC/AT compatible machines.
OS	Windows®98 (Second Edition or later), Windows®Millennium Edition, Windows®2000 Professional (Service Pack 3 or later), Windows®XP (Home Edition/ Professional Edition) *Administrator permission is necessary when you install this product.
CPU	Pentium®II 266MHz or above is recommended.
Memory	128MB or more (512MB or more is recommended.)
Hard Disk Space	60MB or more
Others	keyboard, mouse, CD-ROM Drive (necessary only at the time of installation) and printer which support the above OS

NOTE: This operating environment is valid as of November, 2005.
Please consult with sales staff prior to purchasing.
When using a PC, USB port or Ethernet for downloading screen is necessary.



Introducing new screen editor that's easier to use than ever before

Screen Editor

GP-Pro EX

Software

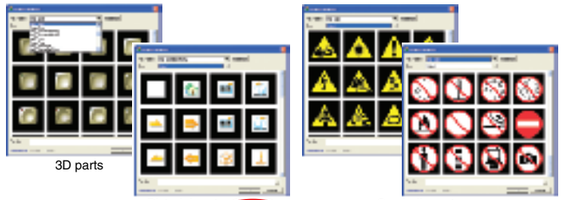
SOPHISTICATED DRAWING FEATURES MAKE IT EASIER TO CREATE APPEALING AND HIGHLY FUNCTIONAL SCREENS.

High-quality Parts

A wide variety of attractive and easy-to-understand parts

◎Pictorial symbols can be used to create operator screens that overcome language barriers.

◎These parts contribute to intuitive understanding of conditions.



3D parts

Pictorial parts An industry first

Symbolic parts

Type	Rectangular	Circular	Metallic	Slides	Selectors	Toggle Switches	Arrows	Figures & Symbols	Pipes	Caution Symbols
Quantity	648	156	238	70	6	312	68	214	8	68

Pasting Images

Image files can be freely pasted as well as enlarged/reduced.

◎BMP and JPG files can be placed.

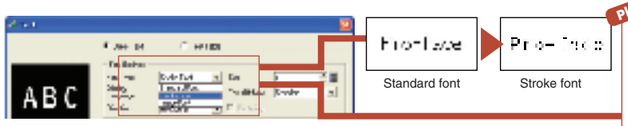
◎Placed Images can easily be enlarged/reduced.

Plus!

Directly call up JPG files saved on a CF card.

Stroke Fonts

Stroke fonts provide greater layout flexibility and beautiful text.



◎Stroke fonts can be smoothly enlarged or reduced in single-dot increments. Bold and outline fonts are also supported.

◎Thanks to Unicode support, GP-Pro EX supports display in several languages and can accommodate several languages regardless of OS.

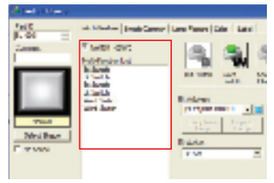
Plus!

Windows-based image fonts are also supported. This allows you to create displays with a wide range of characters.

Multifunction Switches

Multiple functions can easily be assigned to a single switch from a single window.

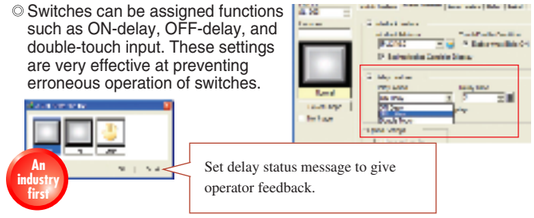
◎Assign multiple additional functions to a single switch without changing the existing functions.



ON Delay/ OFF Delay/ Double Touch Switches

Easily configure switch settings to effectively prevent erroneous operation.

◎Switches can be assigned functions such as ON-delay, OFF-delay, and double-touch input. These settings are very effective at preventing erroneous operation of switches.



An industry first

Set delay status message to give operator feedback.

FOR EASY, RELIABLE OPERATION WITH GLOBAL COMPATIBILITY.

The drawing environment features a language-switching function.

The software menu language can be changed easily to accommodate operator preference.

◎The display language can be toggled between English and Japanese.

◎More languages will be available soon including Korean, simplified and traditional Chinese, and several European languages.

Unicode

Unicode support enables you to display and input multiple languages, regardless of the OS language.

◎Since Unicode supports Japanese, Chinese, Taiwanese, Korean, and almost all European languages, you can input using multiple languages, regardless of the OS language.

◎You can also directly capture characters from Web dictionary services.

Text Table

Easily switch between various languages on the same screen.

◎Input is enabled for any language, regardless of the language the OS was intended for.

◎Simply use the copy & paste functions to place data into the text table after translation in CSV or Excel.

◎The number of lines in the text table has been increased from 3,000 (conventional models) to 10,000.

EDITING FUNCTIONS WITH ADDED FEATURES ENSURE GREATER EFFICIENCY.

Fixing Pin Function

Fix placed parts or other objects to the background.

◎Use this function to fix any object that should not be moved during editing to a specific position on the background. For example, you can use this function to fix a screen calling position, ensuring smoother operation.

Select yellow. Lock yellow. Select all. Shift upward. Yellow remains locked in position.

Guideline Display

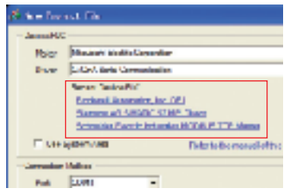
Visual positioning of objects.

◎This function helps you to position an object when placing or moving it. It automatically detects the top, bottom, right, left and center of an object placed on the screen.

Recently Used Connected Devices

Up to three recently used devices can be displayed and selected with this function.

◎This function lists up to three connected devices (PLCs, etc.) that have been used recently. Directly select any of the frequently used devices from the list.



Software

EASILY INCORPORATES EXISTING DATA RESOURCES TO REDUCE THE NUMBER OF DRAWING STEPS.

File Converter

Easily use your existing screen data.

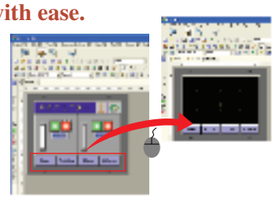
◎Screen data created with GP-PRO/PBIII can be converted for use in GP-Pro EX. The result of the conversion can be verified as a text file.

Note: To convert a file, refer to the website and always verify converted files on an actual device.

Open Two Projects Simultaneously.

This feature allows you to incorporate data from different projects with ease.

◎GP-Pro EX can open two projects simultaneously, allowing for screen copy or copy & paste of partial screen data.



Note: A single project cannot be opened twice simultaneously.

Template Registration

Create your own template for background, or base screen data.

◎Once you create a screen, you can register it as a template. To create a similar screen, simply use the registered template.

◎This function is useful for screen standardization and allows screen resources to be applied to other projects.

Headers & Footers

Format the top and bottom of the screen, and call the formatting to any screen.

◎Simply format the top and bottom of the screen once and use the formatting repeatedly for various screens.

◎You can register up to 20 types of headers and footers.

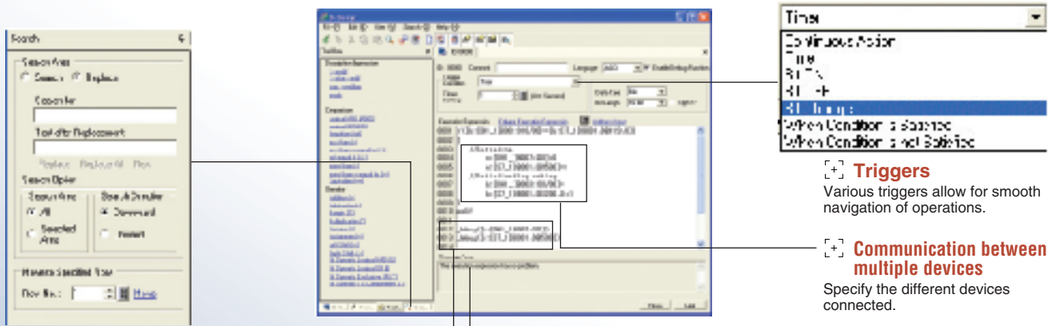
◎Registered headers/footers can be easily called into a screen at any time.

ADVANCED SCRIPTING FUNCTIONS ARE EASY ENOUGH FOR BEGINNERS TO USE.

D-script

D-script is Pro-face's original easy scripting language. It now offers increased functionality and supports additional advanced settings.

◎An advanced scripting language that is easy for beginners to use lightens the load on the PLC.



Search Feature
The enhanced search and replacement feature supports debugging processes.

New debugging functions are now supported.

Debug Function
Using the Debug Function, addresses can be verified on the display terminal. Debug function can be set to be hidden or displayed by using the main unit offline.

Triggers
Various triggers allow for smooth navigation of operations.

Communication between multiple devices
Specify the different devices connected.

Message Area
Clear, easy-to-understand messages are displayed.

With D-script, you can create programs, which were conventionally processed on the PLC, on GP-Pro EX in order to process them with the CPU of the AGP, which reduces the number of PLC programs and procedure.

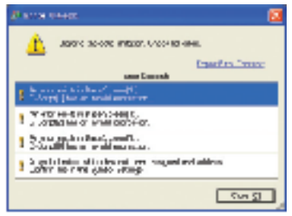
INCREASE DEBUGGING EFFICIENCY AND SIMPLIFY CREATION OF DOCUMENTATION.

Error Checking

GP-Pro EX detects errors in a project before the screen data is transferred.

◎Check for errors when saving a project.

◎When an error is detected, a clear message is displayed including why, where, etc.



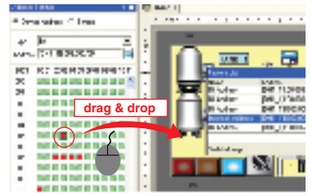
Address Mapping

An industry first

Set addresses visually with mouse operations alone.

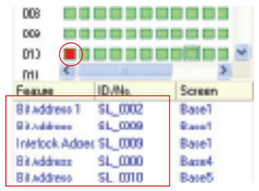
◎This function enables simplified, drag & drop visual address setup, ensuring higher efficiency.

◎Reduce typing time.



Simply click on the part ID to display the screen in which the relevant part is used.

◎The addresses currently used in a project are indicated in red. Clicking on the colored address displays the corresponding screen number and part ID. Clicking on the part ID displays the screen where the relevant part is used.

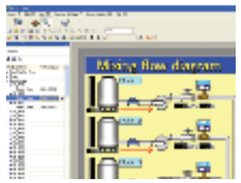


Preview

This feature allows you to easily verify the actual display screen. Capture screen images to easily make screen specifications.

◎To simplify checking of the actual display screen, preview mode allows the input of dummy data for each part and window.

◎Screen images can be captured in the preview screen and used for preparing screen specifications.



Auto-document

Select only the items necessary for smoother document preparation.

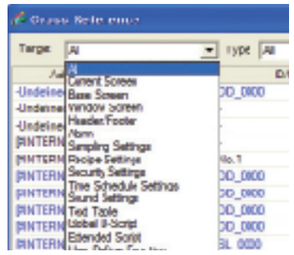
◎This tool supports document preparation. Easily create a document simply by checking the items required in the document.

Cross-reference

The search items for the addresses currently in use can be easily selected from the list.

◎Cross-reference search items are specialized for enhanced searchability.

◎Reduce the number of debugging steps.



Available 2006.

Data management software

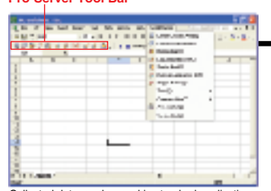
Pro-Server EX

Pro-Server EX ensures easy setup and requires no programming knowledge. And because it uses collected data, it optimizes production control and operations.

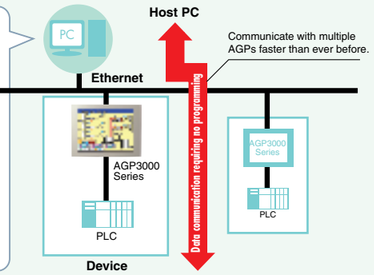
Templates provide simplified visual monitoring of field conditions.

Numerous templates are available.

Pro-Server Tool Bar



Collected data can be used in standard applications such as Excel.



AGP-3700 SERIES

15inch

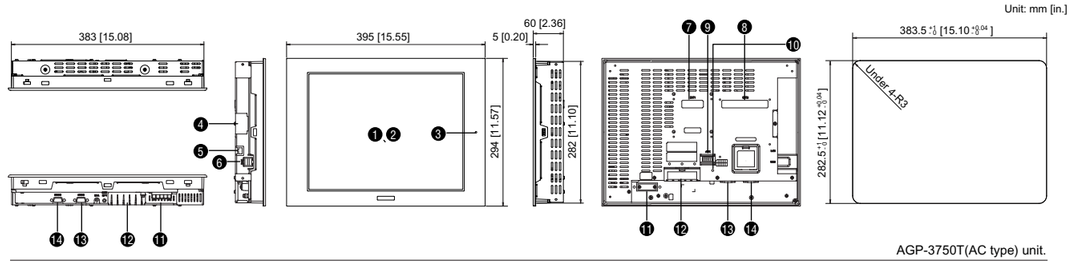
Performance Specifications		AGP3750-T1-AF
International Safety Standards		CE, UL, cUL
Display Type		TFT Color LCD
Display Colors		65,536 Colors (no blink) / 16,384 Colors (3-speed blink) *1
Backlight		CCFL (Service life: 50,000 hrs. at 25 ℃ and 24 hr. Operation)
Display Resolution		1024 x 768 pixels
Effective Display Area		306.2mm[12.06in.] x 230.1mm[9.06in.]
Brightness Control		8 levels of adjustment available via touch panel
Contrast Adjustment		———
Language Fonts		Japanese: 6962 (JIS Standard 1&2)(including 607 non-kanji characters) ANK: 158 (Korean fonts, Simplified and traditional Chinese fonts are downloadable.)
Text Composition	Character Sizes	Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 dot fonts, Stroke font: 6 to 127 dot fonts (Full-size character: 12 to 254 dot fonts)
	Font Sizes	Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times *2
Text	8 x 8 dots	128 Char. x 96 rows
	8 x 16dots	128 Char. x 48 rows
	16 x 16 dots	64 Char. x 48 rows
	32 x 32 dots	32 Char. x 24 rows
Memory	Application	8MB FEPROM *3
	Data Backup	320KB SRAM *4
Touch Panel	Type	Resistive Film (analog)
	Resolution	1024 x 1024
Interface	Serial Interface (COM1)	Asynchronous Transmission: RS-232C/422/485 *5 Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps, Connector: D-Sub 9pin male
	Serial Interface (COM2)	Asynchronous Transmission: RS-422/485 Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps (MPI: 187.5kbps to 12Mbps *6), Connector: D-Sub 9pin female
	Ethernet Interface	IEEE802.3u, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)
	USB Interface	USB1.1 Host I/F, USB TYPE-A connector x 2
	CF Card Interface	CF Card Slot (TYPE-II) x 1
	Sound Output	Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1kHz) Connector: Two piece type terminal block
	AUX Input/Output	[AUX Output] Alarm Output, RUN Output, Buzzer Output, Rated Voltage: DC24V, Rated Current: 50mA, [AUX Input] Remote Reset Input, Input Voltage: DC24V, Input Current: 6mA, Operating Voltage: (When ON) DC9V or more, (When OFF) DC2.5V or less

General Specifications	AGP3750-T1-AF
Rated Voltage	AC100V to AC240V
Rated Voltage Range	AC85V to AC265V
Allowable Voltage Drop	Shorter than 1cycle (Instantaneous power failure time: 1s or less)
Power Consumption	AC100V 1.1A or less AC240V 0.7A or less
Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)
Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)
Operating Temperature	0 ℃ to 50 ℃ *7
Storage Temperature	-20 ℃ to +60 ℃
Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)
Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)
Pollution Degree	Pollution Degree 2
Corrosive Gasses	Free of corrosive gasses
Atmospheric Endurance (AGP Operation Altitude)	800hPa to 1114hPa (2000 meters or lower)
Vibration Resistance	IEC61131-2(JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s^2 X,Y,Z directions for 10 times (100min.)
Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 1 μs Arise Time: 1ns
Electrostatic Discharge Immunity	6kV (complies with EN 61000-4-2 Level 3)
Grounding	100Ω or less, or your country's applicable standard *8
Ratings (For front panel of installed unit)	Equipment to IP65f NEMA #250 TYPE 4X/13 *9
External Dimensions	W395mm[15.55in.] x H294mm[11.57in.] x D60mm[2.36in.]
Weight	5.6kg (12.3lb) or less
Cooling Method	Natural air circulation

*1 Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors".
*2 Font Sizes can be set up by software.
*3 User area.
*4 A Lithium battery's lifetime is:
10 years when the battery's ambient temperature is 40℃ or less.
4.1 years when the battery's ambient temperature is 50℃ or less.
1.5 years when the battery's ambient temperature is 60℃ or less.
When used for back up:
Approximately 60 days, with a fully charged battery.
Approximately 6 days, with a half-charged battery.
*5 RS-232C and RS-422/485 are software switchable.
*6 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
Please contact your Pro-face sales representative for supported models and other details.
*7 Operating temperature refers to temperature inside mounting enclosure.
*8 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation.
For more information, please contact your local Pro-face office.
*9 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment.
Be sure to confirm your work environment requirements prior to installation.

External Dimensions, Parts Names

Unit: mm [in.]



AGP-3750T(AC type) unit.

❶ Display

❷ Touch Panel

❸ Status LED
This LED indicates the AGP's status, e.g. power input, firmware RUN status or backlight condition.

LED	AGP Status
Green (lit)	Normal operation (power is ON.) or OFFLINE operation.
Orange (lit)	Backlight burnout is detected.
Orange (blinking)	During software startup.
Red (lit)	When power is turned ON.
Not lit	Power is OFF.

❹ Expansion Unit Interface 1
Connects expansion units with communication features.

❺ Ethernet Interface (LAN)
The Ethernet transmission interface conforms to IEEE802.3u (10BASE-T/100BASE-TX). An RJ-45 type modular jack connector (8-pole) is used. The LED turns on or off to indicate the current status.

LED	AGP Status
Green ON	Data transmission available
Green OFF	No connection or subsequent transmission failure
Yellow ON	Data transmission is occurring.
Yellow OFF	No data transmission

❻ USB Interface (Host) (X2)
Conforms to USB1.1. (TYPE-A conn.) Connects a data transfer cable or USB-compatible printer. The maximum communication distance is 5m.

❼ Expansion Unit Interface 2
Connects expansion units with communication features.

❽ VM Unit Interface
This interface is equipped with the unit for extending a display function.

❾ Auxiliary Input/Output /Voice Output Interface (AUX)
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❿ CF Card Access LED
This lamp lights up when CF card is inserted and CF card cover is closed. However if cover is opened while card is being accessed, light will remain lit.

Access Lamp	Indicates
Green ON	The CF Card is inserted and the CF Card Cover is closed. Or, the CF Card is being accessed.
Green OFF	The CF Card is not inserted or is not being accessed.

⓫ Power Input Terminal Block
Connect the power cable.

⓬ CF Card Cover
The CF Card I/F and Dip Switches are located in the CF Card Cover open. This cover must be closed when accessing the CF Card.

⓭ Serial Interface (COM1)
RS-232C/RS-422/RS-485 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

⓮ Serial Interface (COM2)
RS-422/RS-485 serial interface. D-sub 9-pin socket type connector.

●Accessories

This operating environment is valid as of November, 2005. Optional items may be added at any time. Please verify details on the Pro-face homepage.

Product Name			Model No.		Description	AGP-3750T
GP-Pro EX			EX-ED-V10		New easy-to-use screen editor software (GP-Pro EX)	○
GP-Pro EX Editor License			EX-ED-LICENSE		User license for (GP-Pro EX)	○
Cable	USB Transfer Cable (1m)		CA3-USBCB-01		Downloads project data created with the Screen Editor via the AGP unit's serial port.	○
	USB Cable (5m)		FP-US00		Connects a USB printer. (TYPE-B)	○
	USB Front Cable (1m)		CA5-USBEXT-01		The cable for extending a USB Host Interface of AGP.	○
	RS-232C Cable (5m)		CA3-CBL232/5M-01		Connects Mitsubishi PLC A-Series (or other host controller) to the AGP. (RS-232C) <GP410-IS00-O replacement product>	○
	AGP RS-422 Cable (5m)		CA3-CBL422-01		Connects a host controller to the AGP. (RS-422) <GP230-IS11-O replacement product>	○ *1,2
	RS-422 Cable (5m)		CA3-CBL422/5M-01		Connects a host controller to the AGP. (RS-422)	○
	Mitsubishi PLC A-Series Connection Cable (5m)		CA3-CBLA-01		Connects Mitsubishi PLC A-Series and QnA-Series programming console I/F to AGP (Simultaneous use of programming console is not possible.) <GP430-IP10 replacement product>	○
	Mitsubishi PLC Q-Series Connection Cable (5m)		CA3-CBLQ-01		Connects Mitsubishi PLC Q-Series programming console I/F to -AGP. (Simultaneous use of programming console is not possible.)	○
	Mitsubishi PLC Q-Series Link Cable (5m)		CA3-CBLLNKMQ-01		Connects Mitsubishi PLC Q-Series (or other host controller) to the AGP (RS-232C)	○
	Mitsubishi PLC FX-Series Connection Cable (5m)		CA3-CBLFX/5M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○
	Mitsubishi PLC FX-Series Connection Cable (1m)		CA3-CBLFX/1M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○
	Omron PLC SYSMAC Link Cable (5m)		CA3-CBLSYS-01		Connects Omron PLC SYSMAC Series unit (or other host controller) to the AGP. (RS-232C) <GP000-IS03-MS replacement product>	○
	AGP Multi-Link Cable (5m)		CA3-CBLMLT-01		CF Card Items (AGP-3302B is not available) connects a host controller to the AGP for multi-link (n:1) communication. <GP230-IS12-O replacement product>	○ *1,2
	AGP 2 Port Adapter Cable (5m)		CA3-MDCB11		Connects Mitsubishi PLC to the AGP using 2 port adapter II (RS-422)	○ *1,2
	9-pin-to-25-pin RS-232C Conversion Cable		CA3-CBLCBT232-01		Connects a standard RS-232C cable (GP Connector:D-sub 25-pin) to the AGP.	○
	9-pin-to-25-pin RS-422 Conversion Cable		CA3-CBLCBT422-01		Connects a standard RS-422 cable (GP Connector:D-sub 25-pin) to the AGP.	○ *1,2
Adapter	COM Port Conversion Adapter		CA3-ADPCOM-01		Connects optional RS-422 communication items to AGP unit's COM1 port.	○
	On-line Adapter		CA4-ADPONL-01		Terminal adapter for performing RS-422/RS-485 communication at COM2 port.	○ *2
	Terminal Block Conversion		CA3-ADPTRM-01		Connects output from a serial interface with an RS-422 terminal block. <GP070-CN10-O replacement product>	○ *1,2
	Siemens COM Port Conversion Adapter		CA3-ADPSEI-01		Connects Siemens PLCs to the AGP. (for RS-485 communication)	○ *3
	Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II		GP070-MD11		Allows simultaneous use of an AGP Series unit and a Mitsubishi PLC A, QnA, FX Series peripheral device.	○ *1,2,4
	RS-232C Isolation Unit		CA3-ISO232-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-232C and RS-422 are switchable).	○
	RS-485 Isolation Unit		CA3-ISO485-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-422 and RS-485 are switchable).	○
	CF Card Adapter		GP077-CFAD10		Used for read/write of CF Card data via a PC's PCMCIA slot.	○
CF Card		64MB	CA3-CFCALL/64MB-01	64MB	Inserted into the AGP unit's CF Card slot. AGP-3302B is not available.	○
		128MB	CA3-CFCALL/128MB-01	128MB		○
		256MB	CA3-CFCALL/256MB-01	256MB		○
		512MB	CA3-CFCALL/512MB-01	512MB		○
PROFIBUS Slave Unit			CA5-PFSALL/EX-01		Expansion Unit for connecting AGP to PROFIBUS network or communicating with a PROFIBUS-DP master.	○
Installation Gasket		15 inch	CA3-WPG15-01	15 inch for AGP-3700 series	Provides dust and moisture resistance when AGP is installed into a solid panel.	○
AUX Connector			CA5-AUXCNALL-01		The AUX connector for AGP3000 series required in case an external output is used.	○
Connector Cover			CA3-BUSCVR-01		Protects the AGP unit's rear face connector.	○
Installation Fastener			CA3-ATFALL-01		Used to install the AGP into a solid panel.	○
USB Cable Clamp (2 port)			CA5-USBATL-01		USB Cable clamp for 2 port products to prevent disconnection.	○
Protection Sheet		15 inch	CA3-DFS15-01	15 inch for AGP-3700 series	Disposable, dirt-resistant sheet for the AGP unit's screen. (5 sheets/set) (Hard type)	○
Replacement Backlight		15 inch TFT	CA3-BLU15-01	15 inch for AGP-3700 series	This backlight is used for replacement.	○

*1. When connecting to COM1, COM conversion adapter (CA3-ADPCOM-01) is required.
*2. Online adapter is required for these cases: 1:1communication.
For use in 1:N, N:1, N:N communication terminal (1 unit, or potentially up to 2 units can be used).
*3. For termination set software to "ON".
*4. 2 port adapter cable (CA3-MDCB11) is required.

AGP-3600 SERIES

12.1inch

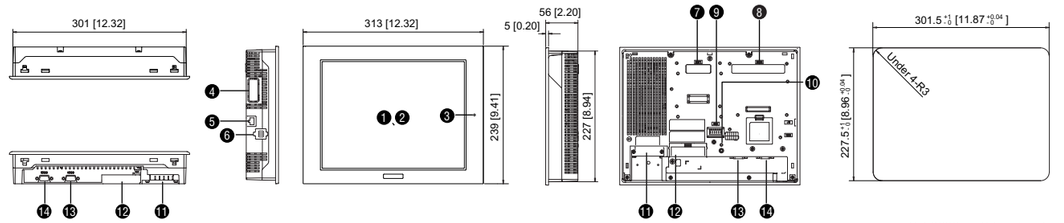
Performance Specifications		AGP3600-T1-AF	AGP3600-T1-D24
International Safety Standards		CE UL cUL	CE UL CSA
Display Type		TFT Color LCD	
Display Colors		65,536 Colors (no blink) / 16,384 Colors (3-speed blink) *1	
Backlight		CCFL (Service life: 50,000 hrs. at 25 ℃ and 24 hr. Operation)	
Display Resolution		800 x 600 pixels	
Effective Display Area		248.0mm[9.76in.] x 186.5mm[7.34in.]	
Brightness Control		8 levels of adjustment available via touch panel	
Contrast Adjustment		———	
Language Fonts		Japanese: 6962 (JIS Standard 1&2)(including 607 non-kanji characters) ANK: 158 (Korean fonts, Simplified and traditional Chinese fonts are downloadable.)	
Text Composition	Character Sizes	Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 dot fonts, Stroke font: 6 to 127 dot fonts (Full-size character: 12 to 254 dot fonts)	
	Font Sizes	Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times *2	
Text	8 x 8 dots	100 Char. x 75 rows	
	8 x 16dots	100 Char. x 37 rows	
	16 x 16 dots	50 Char. x 37 rows	
	32 x 32 dots	25 Char. x 18 rows	
Memory	Application	8MB FEPROM *3	
	Data Backup	320KB SRAM *4	
Touch Panel	Type	Resistive Film (analog)	
	Resolution	1024 x 1024	
Interface	Serial Interface (COM1)	Asynchronous Transmission: RS-232C/422/485 *5, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps, Connector: D-Sub 9pin male	
	Serial Interface (COM2)	Asynchronous Transmission: RS-422/485 Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps (MPI: 187.5kbps to 12Mbps *6), Connector: D-Sub 9pin female	
	Ethernet Interface	IEEE802.3u, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)	
	USB Interface	USB1.1, USB TYPE-A connector x 2	
	CF Card Interface	CF Card Slot (TYPE-II) x 1	
	Sound Output	Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1kHz), Connector: Two piece type terminal block	
	AUX Input/Output	[AUX Output] Alarm Output, RUN Output, Buzzer Output, Rated Voltage: DC24V, Rated Current: 50mA, [AUX Input] Remote Reset Input, Input Voltage: DC24V, Input Current: 6mA, Operating Voltage: (When ON) DC9V or more, (When OFF) DC2.5V or less	

General Specifications	AGP3600-T1-AF	AGP3600-T1-D24
Rated Voltage	AC100V to AC240V	DC24V
Rated Voltage Range	AC85V to AC265V	DCV19.2 to DC28.8V
Allowable Voltage Drop	Shorter than 1cycle (Instantaneous power failure time: 1s or less)	10ms or less
Power Consumption	AC100V 0.9A or less AC240V 0.45A or less	50W or less
Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)	AC1000V 20mA for 1 minute (between charging and FG terminals)
Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)	
Operating Temperature	0 ℃ to 50 ℃ *7	
Storage Temperature	-20 ℃ to +60 ℃	
Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)	
Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)	
Pollution Degree	Pollution Degree 2	
Corrosive Gasses	Free of corrosive gasses	
Atmospheric Endurance (AGP Operation Altitude)	800hPa to 1114hPa (2000 meters or lower)	
Vibration Resistance	IEC61131-2 (JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s² X,Y,Z directions for 10 times (100min.)	
Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 1μs Arise Time: 1ns	Noise Voltage: 1000Vp-p Pulse Duration: 1μs Arise Time: 1ns
Electrostatic Discharge Immunity	6kV (complies with EN 61000-4-2 Level 3)	
Grounding	100Ω or less, or your country's applicable standard *8	
Ratings (For front panel of installed unit)	Equipment to IP65f NEMA #250 TYPE 4X/13 *9	
External Dimensions	W313mm[12.31in.] x H239mm[9.41in.] x D56mm[2.20in.]	
Weight	3.0kg (6.6lb) or less	
Cooling Method	Natural air circulation	

*1 Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors".
*2 Font Sizes can be set up by software.
*3 User area.
*4 A Lithium battery's lifetime is:
10 years when the battery's ambient temperature is 40℃ or less.
4.1 years when the battery's ambient temperature is 50℃ or less.
1.5 years when the battery's ambient temperature is 60℃ or less.
When used for back up:
Approximately 60 days, with a fully charged battery.
Approximately 6 days, with a half-charged battery.
*5 RS-232C and RS-422/485 are software switchable.
*6 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
Please contact your Pro-face sales representative for supported models and other details.
*7 Operating temperature refers to temperature inside mounting enclosure.
*8 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation.
For more information, please contact your local Pro-face office.
*9 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment.
Be sure to confirm your work environment requirements prior to installation.

External Dimensions, Parts Names

Unit: mm [in.]



AGP-3600T(AC type) unit.

❶ Display

❷ Touch Panel

❸ Status LED
This LED indicates the AGP's status, e.g. power input, firmware RUN status or backlight condition.

LED	AGP Status
Green (lit)	Normal operation (power is ON.) or OFFLINE operation.
Orange (lit)	Backlight burnout is detected.
Orange (blinking)	During software startup.
Red (lit)	When power is turned ON.
Not lit	Power is OFF.

❹ Expansion Unit Interface 1
Connects expansion units with communication features.

❺ Ethernet Interface (LAN)
The Ethernet transmission interface conforms to IEEE802.3u (10BASE-T/100BASE-TX). An RJ-45 type modular jack connector (8-pole) is used. The LED turns on or off to indicate the current status.

LED	AGP Status
Green ON	Data transmission available
Green OFF	No connection or subsequent transmission failure
Yellow ON	Data transmission is occurring.
Yellow OFF	No data transmission

❻ USB Interface (Host) (X2)
Conforms to USB1.1. (TYPE-A conn.) Connects a data transfer cable or USB-compatible printer. The maximum communication distance is 5m.

❼ Expansion Unit Interface 2
Connects expansion units with communication features.

❽ VM Unit Interface
This interface is equipped with the unit for extending a display function.

❾ Auxiliary Input/Output /Voice Output Interface (AUX)
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❿ CF Card Access LED
This lamp lights up when CF card is inserted and CF card cover is closed. However if cover is opened while card is being accessed, light will remain lit.

Access Lamp	Indicates
Green ON	The CF Card is inserted and the CF Card Cover is closed. Or, the CF Card is being accessed.
Green OFF	The CF Card is not inserted or is not being accessed.

⓫ Power Input Terminal Block
Connect the power cable.

⓬ CF Card Cover
The CF Card I/F and Dip Switches are located in the CF Card Cover open. This cover must be closed when accessing the CF Card.

⓭ Serial Interface (COM1)
RS-232C/RS-422/RS-485 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

⓮ Serial Interface (COM2)
RS-422/RS-485 serial interface. D-sub 9-pin socket type connector.

●Accessories

This operating environment is valid as of November, 2005. Optional items may be added at any time. Please verify details on the Pro-face homepage.

Product Name			Model No.		Description	AGP-3600T
GP-Pro EX			EX-ED-V10		New easy-to-use screen editor software (GP-Pro EX)	○
GP-Pro EX Editor License			EX-ED-LICENSE		User license for (GP-Pro EX)	○
Cable	USB Transfer Cable (1m)		CA3-USBCB-01		Downloads project data created with the Screen Editor via the AGP unit's serial port.	○
	USB Cable (5m)		FP-US00		Connects a USB printer. (TYPE-B)	○
	USB Front Cable (1m)		CA5-USBEXT-01		The cable for extending a USB Host Interface of AGP.	○
	RS-232C Cable (5m)		CA3-CBL232/5M-01		Connects Mitsubishi PLC A-Series (or other host controller) to the AGP. (RS-232C) <GP410-IS00-O replacement product>	○
	AGP RS-422 Cable (5m)		CA3-CBL422-01		Connects a host controller to the AGP. (RS-422) <GP230-IS11-O replacement product>	○*1,2
	RS-422 Cable (5m)		CA3-CBL422/5M-01		Connects a host controller to the AGP. (RS-422)	○
	Mitsubishi PLC A-Series Connection Cable (5m)		CA3-CBLA-01		Connects Mitsubishi PLC A-Series and QnA-Series programming console I/F to AGP.(Simultaneous use of programming console is not possible.)<GP430-IP10 replacement product>	○
	Mitsubishi PLC Q-Series Connection Cable (5m)		CA3-CBLQ-01		Connects Mitsubishi PLC Q-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○
	Mitsubishi PLC Q-Series Link Cable (5m)		CA3-CBLLNKMQ-01		Connects Mitsubishi PLC Q-Series (or other host controller) to the AGP. (RS-232C)	○
	Mitsubishi PLC FX-Series Connection Cable (5m)		CA3-CBLFX/5M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○
	Mitsubishi PLC FX-Series Connection Cable (1m)		CA3-CBLFX/1M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○
	Omron PLC SYSMAC Link Cable (5m)		CA3-CBLSYS-01		Connects Omron PLC SYSMAC Series unit (or other host controller) to the AGP. (RS-232C) <GP000-IS03-MS replacement product>	○
	AGP Multi-Link Cable (5m)		CA3-CBLMLT-01		CF Card Items (AGP-3302B is not available) connects a host controller to the AGP for multi-link (n:1) communication. <GP230-IS12-O replacement product>	○*1,2
	AGP 2 Port Adapter Cable (5m)		CA3-MDCB11		Connects Mitsubishi PLC to the AGP. using 2 port adapter II (RS-422)	○*1,2
	9-pin-to-25-pin RS-232C Conversion Cable		CA3-CBLCBT232-01		Connects a standard RS-232C cable (GP Connector:D-sub 25-pin) to the AGP.	○
	9-pin-to-25-pin RS-422 Conversion Cable		CA3-CBLCBT422-01		Connects a standard RS-422 cable (GP Connector:D-sub 25-pin) to the AGP.	○*1,2
Adapter	COM Port Conversion Adapter		CA3-ADPCOM-01		Connects optional RS-422 communication items to AGP unit's COM1 port.	○
	On-line Adapter		CA4-ADPONL-01		Terminal adapter for performing RS-422/RS-485 communication at COM2 port.	○*2
	Terminal Block Conversion		CA3-ADPTRM-01		Connects output from a serial interface with an RS-422 terminal block. <GP070-CN10-O replacement product>	○*1,2
	Siemens COM Port Conversion Adapter		CA3-ADPSEI-01		Connects Siemens PLCs to the AGP. (for RS-485 communication)	○*3
	Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II		GP070-MD11		Allows simultaneous use of an AGP Series unit and a Mitsubishi PLC A, QnA, FX Series peripheral device.	○*1,2,4
	RS-232C Isolation Unit		CA3-ISO232-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-232C and RS-422 are switchable).	○
	RS-485 Isolation Unit		CA3-ISO485-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-422 and RS-485 are switchable).	○
	CF Card Adapter		GP077-CFAD10		Used for read/write of CF Card data via a PC's PCMCIA slot.	○
CF Card		64MB	CA3-CFCALL/64MB-01	64MB	Inserted into the AGP unit's CF Card slot. AGP-3302B is not available.	○
		128MB	CA3-CFCALL/128MB-01	128MB		○
		256MB	CA3-CFCALL/256MB-01	256MB		○
		512MB	CA3-CFCALL/512MB-01	512MB		○
PROFIBUS Slave Unit			CA5-PFSALL/EX-01		Expansion Unit for connecting AGP to PROFIBUS network or communicating with a PROFIBUS-DP master.	○
Installation Gasket		12 inch	CA3-WPG12-01	12.1 inch for AGP-3600 series/ 10.4 inch for AGP-3500 series (STN type)	Provides dust and moisture resistance when AGP is installed into a solid panel.	○
AUX Connector			CA5-AUXCNALL-01		The AUX connector for AGP3000 series required in case an external output is used.	○
Connector Cover			CA3-BUSCVR-01		Protects the AGP unit's rear face connector.	○
USB Cable Clamp (2 port)			CA5-USBATL-01		USB Cable clamp for 2 port products to prevent disconnection.	○
DC Power Supply Connector for Large-sized Units			CA5-DCCNL-01		Connector for attaching power supply to large-sized units. (DC only)	○
Installation Fastener			CA3-ATFALL-01		Used to install the AGP into a solid panel.	○
Protection Sheet		12 inch	CA3-DFS12-01	12.1 inch for AGP-3600 series/ 10.4 inch for AGP-3500 series (STN type)	Disposable, dirt-resistant sheet for the AGP unit's screen. (5 sheets/set) (Hard type)	○
Replacement Backlight		12 inch TFT	CA3-BLU12-01	12.1 inch for AGP-3600 series	This backlight is used for replacement.	○

*1. When connecting to COM1, COM conversion adapter (CA3-ADPCOM-01) is required.
*2. Online adapter is required for these cases: 1:1communication.
For use in 1:N, N:1, N:N communication terminal (1 unit, or potentially up to 2 units can be used).
*3. For termination set software to "ON".
*4. 2 port adapter cable (CA3-MDCB11) is required.

AGP-3500 SERIES 10.4inch

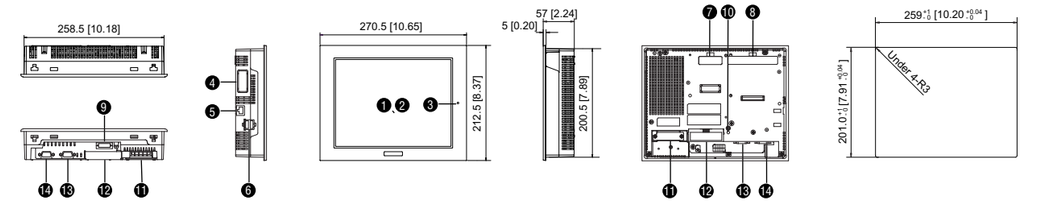
Performance Specifications		AGP3500-T1-AF	AGP3500-T1-D24
International Safety Standards		CE UL cUL	CE UL NSF
Display Type		TFT Color LCD	
Display Colors		65,536 Colors (no blink) / 16,384 Colors (3-speed blink) *1	
Backlight		CCFL (Service life: 50,000 hrs. at 25 ℃ and 24 hr. Operation)	
Display Resolution		640 x 480 pixels	
Effective Display Area		211.2mm[8.31in.] x 158.4mm[6.24in.]	
Brightness Control		8 levels of adjustment available via touch panel	
Contrast Adjustment		————	
Language Fonts		Japanese: 6962 (JIS Standard 1&2)(including 607 non-kanji characters), ANK: 158 (Korean fonts, Simplified and traditional Chinese fonts are downloadable.)	
Text Composition	Character Sizes	Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 dot fonts, Stroke font: 6 to 127 dot fonts (Full-size character: 12 to 254 dot fonts)	
	Font Sizes	Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times *2	
Text	8 x 8 dots	80 Char. x 60 rows	
	8 x 16dots	80 Char. x 30 rows	
	16 x 16 dots	40 Char. x 30 rows	
	32 x 32 dots	20 Char. x 15 rows	
Memory	Application	8MB FEPROM *3	
	Data Backup	320KB SRAM *4	
Touch Panel	Type	Resistive Film (analog)	
	Resolution	1024 x 1024	
Interface	Serial Interface (COM1)	Asynchronous Transmission: RS-232C/422/485 *5, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps, Connector: D-Sub 9pin male	
	Serial Interface (COM2)	Asynchronous Transmission: RS-422/485 Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps (MPI: 187.5kbps to 12Mbps *6), Connector: D-Sub 9pin female	
	Ethernet Interface	IEEE802.3u, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)	
	USB Interface	USB1.1, USB TYPE-A connector x 2	
	CF Card Interface	CF Card Slot (TYPE-II) x 1	
	VM Unit Interface	VM Unit Interface x 1	
	Sound Output	Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1kHz), Connector: Two piece type terminal block	
	AUX Input/Output	[AUX Output] Alarm Output, RUN Output, Buzzer Output, Rated Voltage: DC24V, Rated Current: 50mA, [AUX Input] Remote Reset Input, Input Voltage: DC24V, Input Current: 6mA, Operating Voltage: (When ON) DC9V or more, (When OFF) DC2.5V or less	

General Specifications	AGP3500-T1-AF	AGP3500-T1-D24
Rated Voltage	AC100V to AC240V	DC24V
Rated Voltage Range	AC85V to AC265V	DCV19.2 to DC28.8V
Allowable Voltage Drop	Shorter than 1cycle (Instantaneous power failure time: 1s or less)	10ms or less
Power Consumption	AC100V 0.9A or less, AC240V 0.45A or less	50W or less
Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)	AC1000V 20mA for 1 minute (between charging and FG terminals)
Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)	
Operating Temperature	0 ℃ to 50 ℃ *7	
Storage Temperature	-20 ℃ to +60 ℃	
Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)	
Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)	
Pollution Degree	Pollution Degree 2	
Corrosive Gasses	Free of corrosive gasses	
Atmospheric Endurance (AGP Operation Altitude)	800hPa to 1114hPa (2000 meters or lower)	
Vibration Resistance	IEC61131-2(JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s² X,Y,Z directions for 10 times (100min.)	
Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 1μs Arise Time: 1ns	Noise Voltage: 1000Vp-p Pulse Duration: 1μs Arise Time: 1ns
Electrostatic Discharge Immunity	6kV (complies with EN 61000-4-2 Level 3)	
Grounding	100Ω or less, or your country's applicable standard *8	
Ratings (For front panel of installed unit)	Equipment to IP65f NEMA #250 TYPE 4X/13 *9	
External Dimensions	W270.5mm[10.65in.] x H212.5mm[8.37in.] x D57mm[2.24in.]	
Weight	2.5kg (5.5lb) or less	
Cooling Method	Natural air circulation	

*1 Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors".
*2 Font Sizes can be set up by software.
*3 User area.
*4 A Lithium battery's lifetime is:
10 years when the battery's ambient temperature is 40°C or less.
4.1 years when the battery's ambient temperature is 50°C or less.
1.5 years when the battery's ambient temperature is 60°C or less.
When used for back up:
Approximately 60 days, with a fully charged battery.
Approximately 6 days, with a half-charged battery.
*5 RS-232C and RS-422/485 are software switchable.
*6 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
Please contact your Pro-face sales representative for supported models and other details.
*7 Operating temperature refers to temperature inside monting enclosure.
*8 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation.
For more information, please contact your local Pro-face office.
*9 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment.
Be sure to confirm your work environment requirements prior to installation.

External Dimensions, Parts Names

Unit: mm [in.]



AGP-3500T(AC type) unit.

❶ Display

❷ Touch Panel

❸ Status LED
This LED indicates the AGP's status, e.g. power input, firmware RUN status or backlight condition.

LED	AGP Status
Green (lit)	Normal operation (power is ON.) or OFFLINE operation.
Orange (lit)	Backlight burnout is detected.
Orange (blinking)	During software startup.
Red (lit)	When power is turned ON.
Not lit	Power is OFF.

❹ Expansion Unit Interface 1
Connects expansion units with communication features.

❺ Ethernet Interface (LAN)
The Ethernet transmission interface conforms to IEEE802.3u (10BASE-T/100BASE-TX). An RJ-45 type modular jack connector (8-pole) is used. The LED turns on or off to indicate the current status.

LED	AGP Status
Green ON	Data transmission available
Green OFF	No connection or subsequent transmission failure
Yellow ON	Data transmission is occurring.
Yellow OFF	No data transmission

❻ USB Interface (Host) (X2)
Conforms to USB1.1. (TYPE-A conn.) Connects a data transfer cable or USB-compatible printer. The maximum communication distance is 5m.

❼ Expansion Unit Interface 2
Connects expansion units with communication features.

❽ VM Unit Interface
This interface is equipped with the unit for extending a display function.

❾ Auxiliary Input/Output /Voice Output Interface (AUX)
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❿ CF Card Access LED
This lamp lights up when CF card is inserted and CF card cover is closed. However if cover is opened while card is being accessed, light will remain lit.

Access Lamp	Indicates
Green ON	The CF Card is inserted and the CF Card Cover is closed. Or, the CF Card is being accessed.
Green OFF	The CF Card is not inserted or is not being accessed.

⓫ Power Input Terminal Block
Connect the power cable.

⓬ CF Card Cover
The CF Card I/F and Dip Switches are located in the CF Card Cover open. This cover must be closed when accessing the CF Card.

⓭ Serial Interface (COM1)
RS-232C/RS-422/RS-485 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

⓮ Serial Interface (COM2)
RS-422/RS-485 serial interface. D-sub 9-pin socket type connector.

●Accessories

This operating environment is valid as of November, 2005. Optional items may be added at any time. Please verify details on the Pro-face homepage.

Product Name			Model No.		Description	AGP-3500T
GP-Pro EX			EX-ED-V10		New easy-to-use screen editor software (GP-Pro EX)	○
GP-Pro EX Editor License			EX-ED-LICENSE		User license for (GP-Pro EX)	○
Cable	USB Transfer Cable (1m)		CA3-USBCB-01		Downloads project data created with the Screen Editor via the AGP unit's serial port.	○
	USB Cable (5m)		FP-US00		Connects a USB printer. (TYPE-B)	○
	USB Front Cable (1m)		CA5-USBEXT-01		The cable for extending a USB Host Interface of AGP.	○
	RS-232C Cable (5m)		CA3-CBL232/5M-01		Connects Mitsubishi PLC A-Series (or other host controller) to the AGP. (RS-232C) <GP410-IS00-O replacement product>	○
	AGP RS-422 Cable (5m)		CA3-CBL422-01		Connects a host controller to the AGP. (RS-422) <GP230-IS11-O replacement product>	○ *1,2
	RS-422 Cable (5m)		CA3-CBL422/5M-01		Connects a host controller to the AGP. (RS-422)	○
	Mitsubishi PLC A-Series Connection Cable (5m)		CA3-CBLA-01		Connects Mitsubishi PLC A-Series and QnA-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.) <GP430-IP10 replacement product>	○
	Mitsubishi PLC Q-Series Connection Cable (5m)		CA3-CBLQ-01		Connects Mitsubishi PLC Q-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○
	Mitsubishi PLC Q-Series Link Cable (5m)		CA3-CBLLNKMQ-01		Connects Mitsubishi PLC Q-Series (or other host controller) to the AGP. (RS-232C)	○
	Mitsubishi PLC FX-Series Connection Cable (5m)		CA3-CBLFX/5M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○
	Mitsubishi PLC FX-Series Connection Cable (1m)		CA3-CBLFX/1M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○
	Omron PLC SYSMAC Link Cable (5m)		CA3-CBLSYS-01		Connects Omron PLC SYSMAC Series unit (or other host controller) to the AGP. (RS-232C) <GP000-IS03-MS replacement product>	○
	AGP Multi-Link Cable (5m)		CA3-CBLMLT-01		CF Card Items (AGP-3302B is not available) connects a host controller to the AGP for multi-link (n:1) communication. <GP230-IS12-O replacement product>	○ *1,2
	AGP 2 Port Adapter Cable (5m)		CA3-MDCB11		Connects Mitsubishi PLC to the AGP using 2 port adapter II (RS-422)	○ *1,2
	9-pin-to-25-pin RS-232C Conversion Cable		CA3-CBLCBT232-01		Connects a standard RS-232C cable (GP Connector:D-sub 25-pin) to the AGP.	○
	9-pin-to-25-pin RS-422 Conversion Cable		CA3-CBLCBT422-01		Connects a standard RS-422 cable (GP Connector:D-sub 25-pin) to the AGP.	○ *1,2
Adapter	COM Port Conversion Adapter		CA3-ADPCOM-01		Connects optional RS-422 communication items to AGP unit's COM1 port.	○
	On-line Adapter		CA4-ADPONL-01		Terminal adapter for performing RS-422/RS-485 communication at COM2 port.	○ *2
	Terminal Block Conversion		CA3-ADPTRM-01		Connects output from a serial interface with an RS-422 terminal block. <GP070-CN10-O replacement product>	○
	Siemens COM Port Conversion Adapter		CA3-ADPSEI-01		Connects Siemens PLCs to the AGP. (for RS-485 communication)	○ *3
	Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II		GP070-MD11		Allows simultaneous use of an AGP Series unit and a Mitsubishi PLC A, QnA, FX Series peripheral device.	○ *1,2,4
	RS-232C Isolation Unit		CA3-ISO232-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-232C and RS-422 are switchable).	○
	RS-485 Isolation Unit		CA3-ISO485-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-422 and RS-485 are switchable).	○
	CF Card Adapter		GP077-CFAD10		Used for read/write of CF Card data via a PC's PCMCIA slot.	○
CF Card		64MB	CA3-CFCALL/64MB-01	64MB	Inserted into the AGP unit's CF Card slot. AGP-3302B is not available.	○
		128MB	CA3-CFCALL/128MB-01	128MB		○
		256MB	CA3-CFCALL/256MB-01	256MB		○
		512MB	CA3-CFCALL/512MB-01	512MB		○
PROFIBUS Slave Unit			CA5-PFSALL/EX-01		Expansion Unit for connecting AGP to PROFIBUS network or communicating with a PROFIBUS-DP master.	○
Panel Cutout Adapter for AGP-3500 series (TFT)			CA4-ATM10-01		Panel cutout adapter for mounting AGP-3500 series (TFT) in cutout of GP2500.	○
Installation Gasket		10 inch	CA5-WPG10-01	10.4 inch for AGP-3500 series (TFT type)	Provides dust and moisture resistance when AGP is installed into a solid panel.	○
AUX Connector			CA5-AUXCNALL-01		The AUX connector for AGP3000 series required in case an external output is used.	○
Connector Cover			CA3-BUSCVR-01		Protects the AGP unit's rear face connector.	○
USB Cable Clamp (2 port)			CA5-USBATL-01		USB Cable clamp for 2 port products to prevent disconnection.	○
DC Power Supply Connector for Large-sized Units			CA5-DCCNL-01		Connector for attaching power supply to large-sized units. (DC only)	○
Installation Fastener			CA3-ATFALL-01		Used to install the AGP into a solid panel.	○
Protection Sheet		10 inch	CA5-DFS10-01	10.4 inch for AGP-3500 series (TFT type)	Disposable, dirt-resistant sheet for the AGP unit's screen. (5 sheets/set) (Hard type)	○
Replacement Backlight		10 inch TFT	CA5-BLU10T-01	10.4 inch for AGP-3500 series (TFT type)	This backlight is used for replacement.	○

*1. When connecting to COM1, COM conversion adapter (CA3-ADPCOM-01) is required.
*2. Online adapter is required for these cases: 1:1communication.
For use in 1:N, N:1, N:N communication terminal (1 unit, or potentially up to 2 units can be used).
*3. For termination set software to "ON".
*4. 2 port adapter cable (CA3-MDCB11) is required.

AGP-3500 SERIES

10.4inch

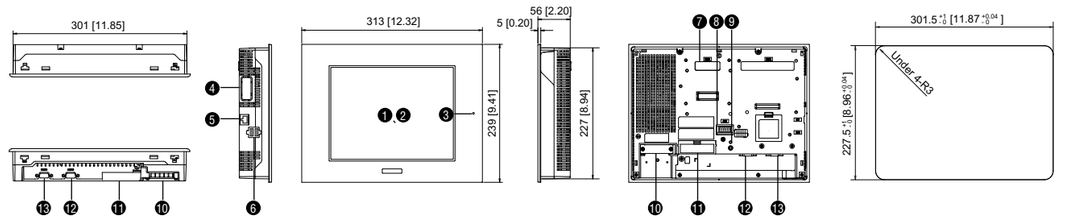
Performance Specifications		AGP3500-S1-AF	AGP3500-S1-D24	AGP3500-L1-D24
International Safety Standards		CE UL cUL	CE UL CSA	CE UL CSA
Display Type		STN Color LCD		Monochrome LCD
Display Colors		4,096 Colors (3-speed blink)		Black and White (16 Shades/ 3-speed blink)
Backlight		CCFL (Service life: 50,000 hrs. at 25 ℃ and 24 hr. Operation)		
Display Resolution		640 x 480 pixels		
Effective Display Area		215.1mm[8.47in.] x 162.3mm[6.39in.]		216.0mm[8.50in.] x 160.8mm[6.33in.]
Brightness Control		8 levels of adjustment available via touch panel		
Contrast Adjustment		8 levels of adjustment available via touch panel		
Language Fonts		Japanese: 6962 (JIS Standard 1&2)(including 607 non-kanji characters), ANK: 158 (Korean fonts, Simplified and traditional Chinese fonts are downloadable.)		
Text Composition	Character Sizes	Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 dot fonts, Stroke font: 6 to 127 dot fonts (Full-size character: 12 to 254 dot fonts)		
	Font Sizes	Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times *1		
Text	8 x 8 dots	80 Char. x 60 rows		
	8 x 16dots	80 Char. x 30 rows		
	16 x 16 dots	40 Char. x 30 rows		
	32 x 32 dots	20 Char. x 15 rows		
Memory	Application	8MB FEPROM *2		
	Data Backup	320KB SRAM *3		
Touch Panel	Type	Resistive Film (analog)		
	Resolution	1024 x 1024		
Interface	Serial Interface (COM1)	Asynchronous Transmission: RS-232C/422/485 *4, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps, Connector: D-Sub 9pin male		
	Serial Interface (COM2)	Asynchronous Transmission: RS-422/485 Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps (MPI: 187.5kbps to 12Mbps *5), Connector: D-Sub 9pin female		
	Ethernet Interface	IEEE802.3u, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)		
	USB Interface	USB1.1, USB TYPE-A connector x 2		
	CF Card Interface	CF Card Slot (TYPE-II) x 1		
	VM Unit Interface	———		
	Sound Output	Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1kHz), Connector: Two piece type terminal block		
	AUX Input/Output	[AUX Output] Alarm Output, RUN Output, Buzzer Output, Rated Voltage: DC24V, Rated Current: 50mA, [AUX Input] Remote Reset Input, Input Voltage: DC24V, Input Current: 6mA, Operating Voltage: (When ON) DC9V or more, (When OFF) DC2.5V or less		

General Specifications	AGP3500-S1-AF	AGP3500-S1-D24	AGP3500-L1-D24
Rated Voltage	AC100V to AC240V	DC24V	
Rated Voltage Range	AC85V to AC265V	DCV19.2 to DC28.8V	
Allowable Voltage Drop	Shorter than 1cycle (Instantaneous power failure time: 1s or less)	10ms or less	
Power Consumption	AC100V 0.9A or less, AC240V 0.45A or less	50W or less	
Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)	AC1000V 20mA for 1 minute (between charging and FG terminals)	
Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)		
Operating Temperature	0 ℃ to 50 ℃ *6		
Storage Temperature	-20 ℃ to +60 ℃		
Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)		
Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)		
Pollution Degree	Pollution Degree 2		
Corrosive Gasses	Free of corrosive gasses		
Atmospheric Endurance (AGP Operation Altitude)	800hPa to 1114hPa (2000 meters or lower)		
Vibration Resistance	IEC61131-2(JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s² X,Y,Z directions for 10 times (100min.)		
Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 1 μs Arise Time: 1ns	Noise Voltage: 1000Vp-p Pulse Duration: 1 μs Arise Time: 1ns	
Electrostatic Discharge Immunity	6kV (complies with EN 61000-4-2 Level 3)		
Grounding	100Ω or less, or your country's applicable standard *7		
Ratings (For front panel of installed unit)	Equipment to IP65f NEMA #250 TYPE 4X/13 *8		
External Dimensions	W313mm[12.31in.] x H239mm[9.41in.] x D56mm[2.20in.]		
Weight	3.0kg (6.6lb) or less		
Cooling Method	Natural air circulation		

*1 Font Sizes can be set up by software.
*2 User area.
*3 A Lithium battery's lifetime is:
10 years when the battery's ambient temperature is 40℃ or less.
4.1 years when the battery's ambient temperature is 50℃ or less.
1.5 years when the battery's ambient temperature is 60℃ or less.
When used for back up:
Approximately 60 days, with a fully charged battery.
Approximately 6 days, with a half-charged battery.
*4 RS-232C and RS-422/485 are software switchable.
*5 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
Please contact your Pro-face sales representative for supported models and other details.
*6 When using AGP-3500L/AGP-3500S in an environment where the temperature becomes or exceeds 40℃ for an extended period of time, the screen contrast level may decrease from its original level of brightness. Operating temperature refers to temperature inside monting enclosure.
*7 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation.
For more information, please contact your local Pro-face office.
*8 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment.
Be sure to confirm your work environment requirements prior to installation.

External Dimensions, Parts Names

Unit: mm [in.]



AGP-3500S(AC type) unit.

❶ Display

❷ Touch Panel

❸ Status LED
This LED indicates the AGP's status, e.g. power input, firmware RUN status or backlight condition.

LED	AGP Status
Green (lit)	Normal operation (power is ON.) or OFFLINE operation.
Orange (lit)	Backlight burnout is detected.
Orange (blinking)	During software startup.
Red (lit)	When power is turned ON.
Not lit	Power is OFF.

❹ Expansion Unit Interface 1
Connects expansion units with communication features.

❺ Ethernet Interface (LAN)
The Ethernet transmission interface conforms to IEEE802.3u (10BASE-T/100BASE-TX). An RJ-45 type modular jack connector (8-pole) is used. The LED turns on or off to indicate the current status.

LED	AGP Status
Green ON	Data transmission available
Green OFF	No connection or subsequent transmission failure
Yellow ON	Data transmission is occurring.
Yellow OFF	No data transmission

❻ USB Interface (Host) (X2)
Conforms to USB1.1. (TYPE-A conn.) Connects a data transfer cable or USB-compatible printer. The maximum communication distance is 5m.

❼ Expansion Unit Interface 2
Connects expansion units with communication features.

❽ Auxiliary Input/Output /Voice Output Interface (AUX)
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❾ CF Card Access LED
This lamp lights up when CF card is inserted and CF card cover is closed. However if cover is opened while card is being accessed, light will remain lit.

Access Lamp	Indicates
Green ON	The CF Card is inserted and the CF Card Cover is closed. Or, the CF Card is being accessed.
Green OFF	The CF Card is not inserted or is not being accessed.

❿ Power Input Terminal Block
Connect the power cable.

⓫ CF Card Cover
The CF Card I/F and Dip Switches are located in the CF Card Cover open. This cover must be closed when accessing the CF Card.

⓬ Serial Interface (COM1)
RS-232C/RS-422/RS-485 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

⓭ Serial Interface (COM2)
RS-422/RS-485 serial interface. D-sub 9-pin socket type connector.

●Accessories

This operating environment is valid as of November, 2005. Optional items may be added at any time. Please verify details on the Pro-face homepage.

Product Name			Model No.		Description	AGP-3500S	AGP-3500L
GP-Pro EX			EX-ED-V10		New easy-to-use screen editor software (GP-Pro EX)	○	○
GP-Pro EX Editor License			EX-ED-LICENSE		User license for (GP-Pro EX)	○	○
Cable	USB Transfer Cable (1m)		CA3-USBCB-01		Downloads project data created with the Screen Editor via the AGP unit's serial port.	○	○
	USB Cable (5m)		FP-US00		Connects a USB printer. (TYPE-B)	○	○
	USB Front Cable (1m)		CA5-USBEXT-01		The cable for extending a USB Host Interface of AGP.	○	○
	RS-232C Cable (5m)		CA3-CBL232/5M-01		Connects Mitsubishi PLC A-Series (or other host controller) to the AGP. (RS-232C) <GP410-IS00-O replacement product>	○	○
	AGP RS-422 Cable (5m)		CA3-CBL422-01		Connects a host controller to the AGP. (RS-422) <GP230-IS11-O replacement product>	○ *1,2	○ *1,2
	RS-422 Cable (5m)		CA3-CBL422/5M-01		Connects a host controller to the AGP. (RS-422)	○	○
	Mitsubishi PLC A-Series Connection Cable (5m)		CA3-CBLA-01		Connects Mitsubishi PLC A-Series and QnA-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.) <GP430-IP10 replacement product>	○	○
	Mitsubishi PLC Q-Series Connection Cable (5m)		CA3-CBLQ-01		Connects Mitsubishi PLC Q-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○	○
	Mitsubishi PLC Q-Series Link Cable (5m)		CA3-CBLLNKMQ-01		Connects Mitsubishi PLC Q-Series (or other host controller) to the AGP. (RS-232C)	○	○
	Mitsubishi PLC FX-Series Connection Cable (5m)		CA3-CBLFX/5M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○	○
	Mitsubishi PLC FX-Series Connection Cable (1m)		CA3-CBLFX/1M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○	○
	Omron PLC SYSMAC Link Cable (5m)		CA3-CBLSYS-01		Connects Omron PLC SYSMAC Series unit (or other host controller) to the AGP. (RS-232C) <GP000-IS03-MS replacement product>	○	○
	AGP Multi-Link Cable (5m)		CA3-CBLMLT-01		CF Card Items (AGP-3302B is not available) connects a host controller to the AGP for multi-link (n:1) communication. <GP230-IS12-O replacement product>	○ *1,2	○ *1,2
	AGP 2 Port Adapter Cable (5m)		CA3-MDCB11		Connects Mitsubishi PLC to the AGP using 2 port adapter II (RS-422)	○ *1,2	○ *1,2
	9-pin-to-25-pin RS-232C Conversion Cable		CA3-CBLCBT232-01		Connects a standard RS-232C cable (GP Connector:D-sub 25-pin) to the AGP.	○	○
	9-pin-to-25-pin RS-422 Conversion Cable		CA3-CBLCBT422-01		Connects a standard RS-422 cable (GP Connector:D-sub 25-pin) to the AGP.	○ *1,2	○ *1,2
Adapter	COM Port Conversion Adapter		CA3-ADPCOM-01		Connects optional RS-422 communication items to AGP unit's COM1 port.	○	○
	On-line Adapter		CA4-ADPONL-01		Terminal adapter for performing RS-422/RS-485 communication at COM2 port.	○ *2	○ *2
	Terminal Block Conversion		CA3-ADPTRM-01		Connects output from a serial interface with an RS-422 terminal block. <GP070-CN10-O replacement product>	○ *1,2	○ *1,2
	Siemens COM Port Conversion Adapter		CA3-ADPSEI-01		Connects Siemens PLCs to the AGP. (for RS-485 communication)	○ *3	○ *3
	Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II		GP070-MD11		Allows simultaneous use of an AGP Series unit and a Mitsubishi PLC A, QnA, FX Series peripheral device.	○ *1,2,4	○ *1,2,4
	RS-232C Isolation Unit		CA3-ISO232-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-232C and RS-422 are switchable).	○	○
	RS-485 Isolation Unit		CA3-ISO485-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-422 and RS-485 are switchable).	○	○
	CF Card Adapter		GP077-CFAD10		Used for read/write of CF Card data via a PC's PCMCIA slot.	○	○
CF Card		64MB	CA3-CFCALL/64MB-01	64MB	Inserted into the AGP unit's CF Card slot. AGP-3302B is not available.	○	○
		128MB	CA3-CFCALL/128MB-01	128MB		○	○
		256MB	CA3-CFCALL/256MB-01	256MB		○	○
		512MB	CA3-CFCALL/512MB-01	512MB		○	○
PROFIBUS Slave Unit			CA5-PFSALL/EX-01		Expansion Unit for connecting AGP to PROFIBUS network or communicating with a PROFIBUS-DP master.	○	○
Installation Gasket		12 inch	CA3-WPG12-01		12.1 inch for AGP-3600 series/ 10.4 inch for AGP-3500 series (STN/Mono) Provides dust and moisture resistance when AGP is installed into a solid panel.	○	○
AUX Connector			CA5-AUXCNALL-01		The AUX connector for AGP3000 series required in case an external output is used.	○	○
Connector Cover			CA3-BUSCVR-01		Protects the AGP unit's rear face connector.	○	○
USB Cable Clamp (2 port)			CA5-USBATL-01		USB Cable clamp for 2 port products to prevent disconnection.	○	○
DC Power Supply Connector for Large-sized Units			CA5-DCCNL-01		Connector for attaching power supply to large-sized units.	○ *5	○
Installation Fastener			CA3-ATFALL-01		Used to install the AGP into a solid panel.	○	○
Protection Sheet		12 inch	CA3-DFS12-01	12.1 inch for AGP-3600 series/ 10.4 inch for AGP-3500 series (STN type)	Disposable, dirt-resistant sheet for the AGP unit's screen. (5 sheets/set) (Hard type)	○	○
Replacement Backlight		10 inch STN	PS501S-BU00	10.4 inch for AGP-3500 series (STN type)	This backlight is used for replacement.	○	○

*1. When connecting to COM1, COM conversion adapter (CA3-ADPCOM-01) is required.
*2. Online adapter is required for these cases: 1:1communication.
For use in 1:N, N:1, N:N communication terminal (1 unit, or potentially up to 2 units can be used).
*3. For termination set software to "ON".
*4. 2 port adapter cable (CA3-MDCB11) is required.
*5. DC only.

AGP-3400 SERIES

7.5inch

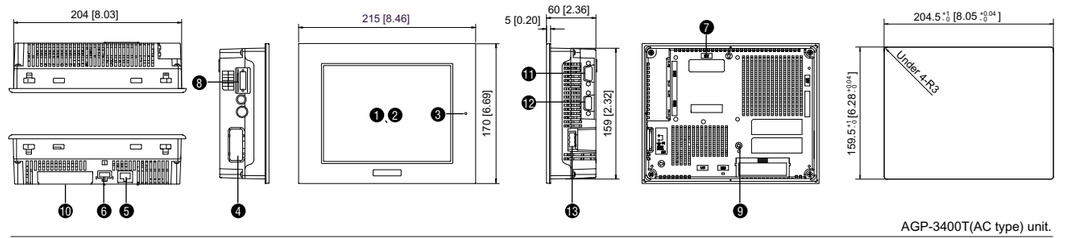
Performance Specifications		AGP3400-T1-D24	AGP3400-S1-D24
International Safety Standards		CE UL cUL	CE UL cUL
Display Type		TFT Color LCD	STN Color LCD
Display Colors		65,536 Colors (no blink) / 16,384 Colors (3-speed blink) *1	4,096 Colors (3-speed blink)
Backlight		CCFL (Service life: 54,000 hrs. at 25 °C and 24 hr. Operation)	
Dispay Resolution		640 x 480 pixels	
Effective Display Area		153.7mm[6.05in.] x 115.8mm[4.56in.]	
Brightness Control		8 levels of adjustment available via touch panel	
Contrast Adjustment		————	8 levels of adjustment available via touch panel
Language Fonts		Japanese: 6962 (JIS Standard 1&2)(including 607 non-kanji characters), ANK: 158 (Korean fonts, Simplified and traditional Chinese fonts are downloadable.)	
Text Composition	Character Sizes	Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 dot fonts, Stroke font: 6 to 127 dot fonts (Full-size character: 12 to 254 dot fonts)	
	Font Sizes	Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times *2	
Text	8 x 8 dots	80 Char. x 60 rows	
	8 x 16dots	80 Char. x 30 rows	
	16 x 16 dots	40 Char. x 30 rows	
	32 x 32 dots	20 Char. x 15 rows	
Memory	Application	8MB FEPROM *3	
	Data Backup	320KB SRAM *4	
Touch Panel	Type	Resistive Film (analog)	
	Resolution	1024 x 1024	
Interface	Serial Interface (COM1)	Asynchronous Transmission: RS-232C/422/485 *5, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps, Connector: D-Sub 9pin male	
	Serial Interface (COM2)	Asynchronous Transmission: RS-422/485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps (MPI: 187.5kbps to 12Mbps *6), Connector: D-Sub 9pin female	
	Ethernet Interface	IEEE802.3u, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)	
	USB Interface	USB1.1, USB TYPE-A connector x 1	
	CF Card Interface	CF Card Slot (TYPE-II) x 1	
	Sound Output	Speaker Output 70mW (Rated Load : 8Ω, Frequency : 1kHz) Connector: Two piece type terminal block	
	AUX Input/Output	[AUX Output] Alarm Output, RUN Output, Buzzer Output, Rated Voltage : DC24V, Rated Current: 50mA, [AUX Input] Remote Reset Input, Input Voltage: DC24V, Input Current: 6mA, Operating Voltage: (When ON) DC9V or more, (When OFF) DC2.5V or less	

General Specifications	AGP3400-T1-D24	AGP3400-S1-D24
Rated Voltage	DC24V	
Rated Voltage Range	DC19.2 to DC28.8V	
Allowable Voltage Drop	10ms or less	
Power Consumption	28W or less	
Voltage Endurance	AC500V 20mA for 1 minute (between charging and FG terminals)	
Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)	
Operating Temperature	0 °C to 50 °C *7	
Storage Temperature	-20 °C to 60 °C	
Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 °C or less)	
Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 °C or less)	
Pollution Degree	Pollution Degree 2	
Corrosive Gasses	Free of corrosive gasses	
Atmospheric Endurance (AGP Operation Altitude)	800hPa to 1114hPa (2000 meters or lower)	
Vibration Resistance	IEC61131-2(JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s^2 X,Y,Z directions for 10 times (100min.)	
Noise Immunity (via noise simulator)	Noise Voltage: 1000Vp-p Pulse Duration: 1μs Arise Time : 1ns	
Electrostatic Discharge Immunity	6kV (complies with EN 61000-4-2 Level 3)	
Grounding	100Ω or less, or your country's applicable standard *8	
Ratings (For front panel of installed unit)	Equipment to IP65f NEMA #250 TYPE 4X/13 *9	
External Dimensions	W215mm[8.46in.] x H170mm[6.69in.] x D60mm[2.36in.]	
Weight	1.8kg (4.0lb) or less	
Cooling Method	Natural air circulation	

*1 Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors".
*2 Font Sizes can be set up by software.
*3 User area.
*4 A Lithium battery's lifetime is:
10 years when the battery's ambient temperature is 40°C or less.
4.1 years when the battery's ambient temperature is 50°C or less.
1.5 years when the battery's ambient temperature is 60°C or less.
When used for back up:
Approximately 60 days, with a fully charged battery.
Approximately 6 days, with a half-charged battery.
*5 RS-232C and RS-422/485 are software switchable.
*6 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
Please contact your Pro-face sales representative for supported models and other details.
*7 When using AGP-3400S in an environment where the temperature becomes or exceeds 40°C for an extended period of time, the screen contrast level may decrease from its original level of brightness. Operating temperature refers to temperature inside mounting enclosure.
*8 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your local Pro-face office.
*9 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to installation.

External Dimensions, Parts Names

Unit: mm [in.]



AGP-3400T(AC type) unit.

❶ Display

❷ Touch Panel

❸ Status LED
This LED indicates the AGP's status, e.g. power input, firmware RUN status or backlight condition.

LED	AGP Status
Green (lit)	Normal operation (power is ON.) or OFFLINE operation.
Orange (lit)	Backlight burnout is detected.
Orange (blinking)	During software startup.
Red (lit)	When power is turned ON.
Not lit	Power is OFF.

❹ Expansion Unit Interface 1
Connects expansion units with communication features.

❺ Ethernet Interface (LAN)
The Ethernet transmission interface conforms to IEEE802.3u (10BASE-T/100BASE-TX). An RJ-45 type modular jack connector (8-pole) is used. The LED turns on or off to indicate the current status.

LED	AGP Status
Green ON	Data transmission available
Green OFF	No connection or subsequent transmission failure
Yellow ON	Data transmission is occurring.
Yellow OFF	No data transmission

❻ USB Interface (Host) (X1)
Conforms to USB1.1. (TYPE-A conn.) Connects a data transfer cable or USB-compatible printer. The maximum communication distance is 5m.

❼ Expansion Unit Interface 2
Connects expansion units with communication features.

❽ Auxiliary Input/Output /Voice Output Interface (AUX)
This interface is External Reset, Alarm Output, Buzzer Output, and sound output.

❾ CF Card Access LED
This lamp lights up when CF card is inserted and CF card cover is closed. However if cover is opened while card is being accessed, light will remain lit.

Access Lamp	Indicates
Green ON	The CF Card is inserted and the CF Card Cover is closed. Or, the CF Card is being accessed.
Green OFF	The CF Card is not inserted or is not being accessed.

❿ CF Card Cover
The CF Card I/F and Dip Switches are located in the CF Card Cover open. This cover must be closed when accessing the CF Card.

⓫ Serial Interface (COM1)
RS-232C/RS-422/RS-485 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.

⓬ Serial Interface (COM2)
RS-422/RS-485 serial interface. D-sub 9-pin socket type connector.

⓭ Power Plug Connector
Power cable is connected to this connector.

●Accessories

This operating environment is valid as of November, 2005. Optional items may be added at any time. Please verify details on the Pro-face homepage.

Product Name		Model No.	Description	AGP-3400T	AGP-3400S
GP-Pro EX		EX-ED-V10	New easy-to-use screen editor software (GP-Pro EX)	○	○
GP-Pro EX Editor License		EX-ED-LICENSE	User license for (GP-Pro EX)	○	○
Cable	USB Transfer Cable (1m)	CA3-USBCB-01	Downloads project data created with the Screen Editor via the AGP unit's serial port.	○	○
	USB Cable (5m)	FP-US00	Connects a USB printer. (TYPE-B)	○	○
	USB Front Cable (1m)	CA5-USBEXT-01	The cable for extending a USB Host Interface of AGP.	○	○
	RS-232C Cable (5m)	CA3-CBL232/5M-01	Connects Mitsubishi PLC A-Series (or other host controller) to the AGP. (RS-232C) <GP410-IS00-O replacement product>	○	○
	AGP RS-422 Cable (5m)	CA3-CBL422-01	Connects a host controller to the AGP. (RS-422) <GP230-IS11-O replacement product>	○ *1,2	○ *1,2
	RS-422 Cable (5m)	CA3-CBL422/5M-01	Connects a host controller to the AGP. (RS-422)	○	○
	Mitsubishi PLC A-Series Connection Cable (5m)	CA3-CBLA-01	Connects Mitsubishi PLC A-Series and QnA-Series programming console I/F to AGP.(Simultaneous use of programming console is not possible.) <GP430-IP10 replacement product>	○	○
	Mitsubishi PLC Q-Series Connection Cable (5m)	CA3-CBLQ-01	Connects Mitsubishi PLC Q-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○	○
	Mitsubishi PLC Q-Series Link Cable (5m)	CA3-CBLLNKMQ-01	Connects Mitsubishi PLC Q-Series (or other host controller) to the AGP. (RS-232C)	○	○
	Mitsubishi PLC FX-Series Connection Cable (5m)	CA3-CBLFX/5M-01	Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○	○
	Mitsubishi PLC FX-Series Connection Cable (1m)	CA3-CBLFX/1M-01	Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○	○
	Omron PLC SYSMAC Link Cable (5m)	CA3-CBLSYS-01	Connects Omron PLC SYSMAC Series unit (or other host controller) to the AGP. (RS-232C) <GP000-IS03-MS replacement product>	○	○
	AGP Multi-Link Cable (5m)	CA3-CBLMLT-01	CF Card Items (AGP-3302B is not available) connects a host controller to the AGP for multi-link (n:1) communication. <GP230-IS12-O replacement product>	○ *1,2	○ *1,2
	AGP 2 Port Adapter Cable (5m)	CA3-MDCB11	Connects Mitsubishi PLC to the AGP using 2 port adapter II (RS-422)	○ *1,2	○ *1,2
	9-pin-to-25-pin RS-232C Conversion Cable	CA3-CBLCBT232-01	Connects a standard RS-232C cable (GP Connector:D-sub 25-pin) to the AGP.	○	○
	9-pin-to-25-pin RS-422 Conversion Cable	CA3-CBLCBT422-01	Connects a standard RS-422 cable (GP Connector:D-sub 25-pin) to the AGP.	○ *1,2	○ *1,2
Adapter	COM Port Conversion Adapter	CA3-ADPCOM-01	Connects optional RS-422 communication items to AGP unit's COM1 port.	○	○
	On-line Adapter	CA4-ADPONL-01	Terminal adapter for performing RS-422/RS-485 communication at COM2 port.	○ *2	○ *2
	Terminal Block Conversion	CA3-ADPTRM-01	Connects output from a serial interface with an RS-422 terminal block. <GP070-CN10-O replacement product>	○ *1,2	○ *1,2
	Siemens COM Port Conversion Adapter	CA3-ADPSEI-01	Connects Siemens PLCs to the AGP. (for RS-485 communication)	○ *3	○ *3
	Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II	GP070-MD11	Allows simultaneous use of an AGP Series unit and a Mitsubishi PLC A, QnA, FX Series peripheral device.	○ *1,2,4	○ *1,2,4
	RS-232C Isolation Unit	CA3-ISO232-01	Unit for electrically isolating a serial interface signal from the AGP internal current (RS-232C and RS-422 are switchable).	○	○
	RS-485 Isolation Unit	CA3-ISO485-01	Unit for electrically isolating a serial interface signal from the AGP internal current (RS-422 and RS-485 are switchable).	○	○
	CF Card Adapter	GP077-CFAD10	Used for read/write of CF Card data via a PC's PCMCIA slot.	○	○
CF Card	64MB	CA3-CFCALL/64MB-01	64MB	Inserted into the AGP unit's CF Card slot. AGP-3302B is not available.	○	○
	128MB	CA3-CFCALL/128MB-01	128MB		○	○
	256MB	CA3-CFCALL/256MB-01	256MB		○	○
	512MB	CA3-CFCALL/512MB-01	512MB		○	○
PROFIBUS Slave Unit		CA5-PFSALL/EX-01	Expansion Unit for connecting AGP to PROFIBUS network or communicating with a PROFIBUS-DP master.	○	○
Installation Gasket	8 inch	CA5-WPG8-01	7.5 inch for AGP-3400 series: Provides dust and moisture resistance when AGP is installed into a solid panel.	○	○
AUX Connector		CA5-AUXCNALL-01	The AUX connector for AGP3000 series required in case an external output is used.	○	○
Connector Cover		CA3-BUSCVR-01	Protects the AGP unit's rear face connector.	○	○
USB Cable Clamp (2 port)		CA5-USBATL-01	USB Cable clamp for 2 port products to prevent disconnection.	○ *5	○ *5
DC Power Supply Connector for Medium-sized Units		CA5-DCCNM-01	Connector for attaching power supply to medium-sized units.	○	○
Installation Fastener		CA3-ATFALL-01	Used to install the AGP into a solid panel.	○	○
Protection Sheet	8 inch	PS400-DF00	7.5 inch for AGP-3400 series: Disposable, dirt-resistant sheet for the AGP unit's screen. (5 sheets/set) (Hard type)	○	○

*1. When connecting to COM1, COM conversion adapter (CA3-ADPCOM-01) is required.
*2. Online adapter is required for these cases: 1:1communication. For use in 1:N, N:1, N:N communication terminal (1 unit, or potentially up to 2 units can be used).
*3. For termination set software to "ON".
*4. 2 port adapter cable (CA3-MDCB11) is required.
*5. AGP-3400 series must use the 2 port USB Cable Clamp (CA5-USBATL-01).

AGP-3300 SERIES

5.7inch

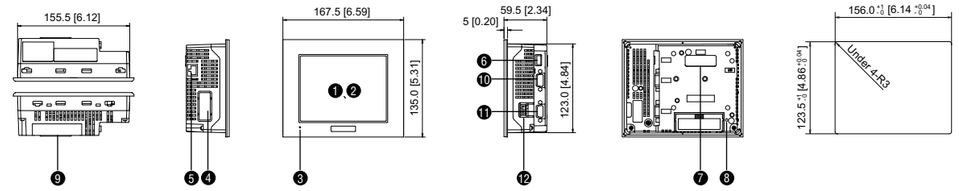
Performance Specifications		AGP3300-T1-D24	AGP3300-S1-D24	AGP3300-L1-D24	AGP3301-S1-D24	AGP3301-L1-D24	AGP3302-B1-D24
International Safety Standards		CE UL CSA					
Display Type		TFT Color LCD	STN Color LCD	Monochrome LCD	STN Color LCD	Monochrome LCD	Blue-mode Monochrome LCD
Display Colors		65,536 Colors (no blink) / 16,384 Colors (3-speed blink) *1	4,096 Colors (3-speed blink)	Black and White (16 Shades/ 3-speed blink)	4,096 Colors (3-speed blink)	Black and White (16 Shades/ 3-speed blink)	Blue and White (16 Shades/ 3-speed blink)
Backlight		CCFL (Service life: 50,000 hrs. at 25 ℃ and 24 hr. Operation)	CCFL (Service life: 75,000 hrs. at 25 ℃ and 24 hr. Operation)	CCFL (Service life: 58,000 hrs. at 25 ℃ and 24 hr. Operation)	CCFL (Service life: 75,000 hrs. at 25 ℃ and 24 hr. Operation)	CCFL (Service life: 58,000 hrs. at 25 ℃ and 24 hr. Operation)	CCFL (Service life: 58,000 hrs. at 25 ℃ and 24 hr. Operation)
Dispay Resolution		320 x 240 pixels					
Effective Display Area		115.2mm[4.54in.] x 86.4mm[3.40in.]					
Brightness Control		8 levels of adjustment available via touch panel					
Contrast Adjustment		———	8 levels of adjustment available via touch panel				
Language Fonts		Japanese: 6962 (JIS Standard 1&2)(including 607 non-kanji characters), ANK: 158 (Korean fonts, Simplified and traditional Chinese fonts are downloadable.)					
Text Composition	Character Sizes	Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 dot fonts, Stroke font: 6 to 127 dot fonts (Full-size character: 12 to 254 dot fonts)					
	Font Sizes	Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times *2					
Text	8 x 8 dots	40 Char. x 30 rows					
	8 x 16dots	40 Char. x 15 rows					
	16 x 16 dots	20 Char. x 15 rows					
	32 x 32 dots	10 Char. x 7 rows					
Memory	Application	6MB FEPROM *3					
	Data Backup	320KB SRAM *4					128KB SRAM*4
Touch Panel	Type	Resitive Film (analog)					
	Resolution	1024 x 1024					
Interface	Serial Interface (COM1)	Asynchronous Transmission: RS-232C/422/485 *5, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even. Data transmission speed: 2400bps to 115.2kbps, Connector: D-Sub 9pin male					Asynchronous Transmission: RS-232C, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps, Connector: D-Sub 9pin male
	Serial Interface (COM2)	Asynchronous Transmission: RS-422/485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even. Data transmission speed: 2400bps to 115.2kbps (MPI: 187.5kbps to 12Mbps *6), Connector: D-Sub 9pin female					Asynchronous Transmission: RS-422, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps, Connector: D-Sub 9pin male (MPI: 187.5kbps *6)
	Ethernet Interface	IEEE802.3u, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)			———		———
	USB Interface	USB1.1 Host I/F, USB TYPE-A connector x 1					
	CF Card Interface	CF Card Slot (TYPE-II) x 1					———

General Specifications	AGP3300-T1-D24	AGP3300-S1-D24	AGP3300-L1-D24	AGP3301-S1-D24	AGP3301-L1-D24	AGP3302-B1-D24
Rated Voltage	DC24V					
Rated Voltage Range	DC19.2V to DC28.8V					
Allowable Voltage Drop	5ms or less					10ms or less
Power Consumption	26W or less					18W or less
Voltage Endurance	AC500V 20mA for 1 minute (between charging and FG terminals)					
Insulation Resistance	10MΩ or higher at DC500V (between charging and FG terminals)					
Operating Temperature	0 ℃ to 50 ℃ *7					
Storage Temperature	-20 ℃ to +60 ℃					
Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)					
Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)					
Pollution Degree	Pollution Degree 2					
Corrosive Gasses	Free of corrosive gasses					
Atmospheric Endurance (AGP Operation Altitude)	800hPa to 1114hPa (2000 meters or lower)					
Vibration Resistance	IEC61131-2 (JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s^2 X,Y,Z directions for 10 times (100min.)					
Noise Immunity (via noise simulator)	Noise Voltage: 1000Vp-p Pulse Duration: 1 μs Arise Time: 1ns					
Electrostatic Discharge Immunity	6kV(complies with EN 61000-4-2 Level 3)					
Grounding	100 Ω or less, or your country's applicable standard *8					
Ratings (For front panel of installed unit)	Equipment to IP65f NEMA #250 TYPE 4X/13 *9					
External Dimensions	W167.5mm[6.59in.] x H135mm[5.31in.] x D59.5mm[2.34in.]					
Weight	1.0kg (2.2lb) or less					
Cooling Method	Natural air circulation					

*1 Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors".
*2 Font Sizes can be set up by software.
*3 User area.
*4 A Lithium battery's lifetime is:
10 years when the battery's ambient temperature is 40℃ or less.
4.1 years when the battery's ambient temperature is 50℃ or less.
1.5 years when the battery's ambient temperature is 60℃ or less.
When used for back up:
Approximately 60 days, with a fully charged battery.
Approximately 6 days, with a half-charged battery.
*5 RS-232C and RS-422/485 are software switchable.
*6 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
Please contact your Pro-face sales representative for supported models and other details.
*7 When using AGP-3300S/AGP-3300L/AGP-3301S/AGP-3301L/AGP-3302B in an environment where the temperature becomes or exceeds 40℃ for an extended period of time, the screen contrast level may decrease from its original level of brightness. Operating temperature refers to temperature inside mounting enclosure.
*8 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your local Pro-face office.
*9 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to installation.

External Dimensions, Parts Names

Unit: mm [in.]



AGP-3300T(AC type) unit.

❶ Display

❷ Touch Panel

❸ Status LED
This LED indicates the AGP's status, e.g. power input, firmware RUN status or backlight condition.

LED	AGP Status
Green (lit)	Normal operation (power is ON.) or OFFLINE operation.
Orange (lit)	Backlight burnout is detected.
Orange (blinking)	During software startup.
Red (lit)	When power is turned ON.
Not lit	Power is OFF.

❹ Expansion Unit Interface 1 (AGP-3302B is not available)
Connects expansion units with communication features.

❺ Ethernet Interface (LAN)(AGP-3300* only)
The Ethernet transmission interface conforms to IEEE802.3u (10BASE-T/100BASE-TX). An RJ-45 type modular jack connector (8-pole) is used. The LED turns on or off to indicate the current status.

LED	AGP Status
Green ON	Data transmission available
Green OFF	No connection or subsequent transmission failure
Yellow ON	Data transmission is occurring.
Yellow OFF	No data transmission

❻ USB Interface (Host)
Conforms to USB1.1. (TYPE-A conn.) Connects a data transfer cable or USB-compatible printer. The maximum communication distance is 5m.

❼ Expansion Unit Interface 2
Connects expansion units with communication features.

❽ CF Card Access LED (AGP-3302B is not available)
This lamp lights up when CF card is inserted and CF card cover is closed. However if cover is opened while card is being accessed, light will remain lit.

Access Lamp	Indicates
Green ON	The CF Card is inserted and the CF Card Cover is closed. Or, the CF Card is being accessed.
Green OFF	The CF Card is not inserted or is not being accessed.

❾ CF Card Cover (AGP-3302B is not available)
The CF Card I/F and Dip Switches are located in the CF Card Cover open. This cover must be closed when accessing the CF Card.

❿ Serial Interface (COM1)
AGP-3300*/ 3301*: RS-232C/RS-422/RS-485 serial interface. D-sub 9-pin plug type connector. Communication method is switched via software.
AGP-3302*: RS-232C serial interface. D-sub 9-pin plug type connector.

⓫ Serial Interface (COM2)
AGP-3300*/ 3301*: RS-422/RS-485 serial interface. D-sub 9-pin socket type connector.
AGP-3302*: RS-422 serial interface. D-sub 9-pin plug type connector.

⓬ Power Plug Connector
Power cable is connected to this connector.

●Accessories

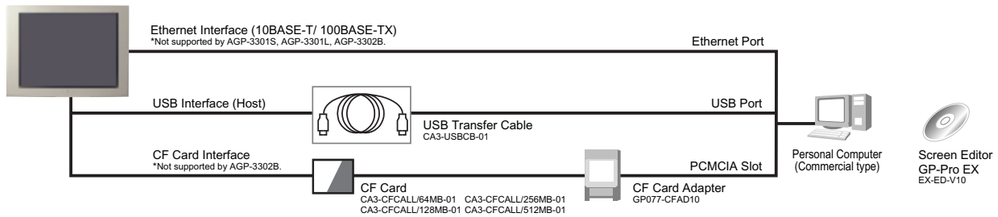
This operating environment is valid as of November, 2005. Optional items may be added at any time. Please verify details on the Pro-face homepage.

	Product Name		Model No.		Description	AGP-3300T	AGP-3300S	AGP-3300L	AGP-3301S	AGP-3301L	AGP-3302B
	GP-Pro EX		EX-ED-V10		New easy-to-use screen editor software (GP-Pro EX)	○	○	○	○	○	○
	GP-Pro EX Editor License		EX-ED-LICENSE		User license for (GP-Pro EX)	○	○	○	○	○	○
Cable	USB Transfer Cable (1m)		CA3-USBCB-01		Downloads project data created with the Screen Editor via the AGP unit's serial port.	○	○	○	○	○	○
	USB Cable (5m)		FP-US00		Connects a USB printer. (TYPE-B)	○	○	○	○	○	○
	USB Front Cable (1m)		CA5-USBEXT-01		The cable for extending a USB Host Interface of AGP.	○	○	○	○	○	○
	RS-232C Cable (5m)		CA3-CBL232/5M-01		Connects Mitsubishi PLC A-Series (or other host controller) to the AGP. (RS-232C) <GP410-IS00-O replacement product>	○	○	○	○	○	○
	AGP RS-422 Cable (5m)		CA3-CBL422-01		Connects a host controller to the AGP. (RS-422) <GP230-IS11-O replacement product>	○*1,2	○*1,2	○*1,2	○*1,2	○*1,2	○*1,5
	RS-422 Cable (5m)		CA3-CBL422/5M-01		Connects a host controller to the AGP. (RS-422)	○	○	○	○	○	○
	Mitsubishi PLC A-Series Connection Cable (5m)		CA3-CBLA-01		Connects Mitsubishi PLC A-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.) <GP430-IP10 replacement product>	○	○	○	○	○	○
	Mitsubishi PLC Q-Series Connection Cable (5m)		CA3-CBLQ-01		Connects Mitsubishi PLC Q-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○	○	○	○	○	○
	Mitsubishi PLC Q-Series Link Cable (5m)		CA3-CBLLNKMQ-01		Connects Mitsubishi PLC Q-Series (or other host controller) to the AGP. (RS-232C)	○	○	○	○	○	○
	Mitsubishi PLC FX-Series Connection Cable (5m)		CA3-CBLFX/5M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○	○	○	○	○	○
	Mitsubishi PLC FX-Series Connection Cable (1m)		CA3-CBLFX/1M-01		Connects Mitsubishi PLC FX-Series programming console I/F to AGP. (Simultaneous use of programming console is not possible.)	○	○	○	○	○	○
	Omron PLC SYSMAC Link Cable (5m)		CA3-CBLSYS-01		Connects Omron PLC SYSMAC Series unit (or other host controller) to the AGP. (RS-232C) <GP000-IS03-MS replacement product>	○	○	○	○	○	○
	AGP Multi-Link Cable (5m)		CA3-CBLMLT-01		CF Card Items (AGP-3302B is not available) connects a host controller to the AGP for multi-link (n:1) communication. <GP230-IS12-O replacement product>	○*1,2	○*1,2	○*1,2	○*1,2	○*1,2	○*1,5
	AGP 2 Port Adapter Cable (5m)		CA3-MDCB11		Connects Mitsubishi PLC to the AGP using 2 port adapter II (RS-422)	○*1,2	○*1,2	○*1,2	○*1,2	○*1,2	○*1,5
	9-pin-to-25-pin RS-232C Conversion Cable		CA3-CBLCBT232-01		Connects a standard RS-232C cable (GP Connector:D-sub 25-pin) to the AGP.	○	○	○	○	○	○
	9-pin-to-25-pin RS-422 Conversion Cable		CA3-CBLCBT422-01		Connects a standard RS-422 cable (GP Connector:D-sub 25-pin) to the AGP.	○*1,2	○*1,2	○*1,2	○*1,2	○*1,2	○*1,5
Adapter	COM Port Conversion Adapter		CA3-ADPCOM-01		Connects optional RS-422 communication items to AGP unit's COM1 port.	○	○	○	○	○	○
	On-line Adapter		CA4-ADPONL-01		Terminal adapter for performing RS-422/RS-485 communication at COM2 port.	○*2	○*2	○*2	○*2	○*2	–
	Terminal Block Conversion		CA3-ADPTRM-01		Connects output from a serial interface with an RS-422 terminal block. <GP070-CN10-O replacement product>	○*1,2	○*1,2	○*1,2	○*1,2	○*1,2	○
	Siemens COM Port Conversion Adapter		CA3-ADPSEI-01		Connects Siemens PLCs to the AGP. (for RS-485 communication)	○*3	○*3	○*3	○*3	○*3	○
	Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II		GP070-MD11		Allows simultaneous use of an AGP Series unit and a Mitsubishi PLC A, QnA, FX Series peripheral device.	○*1,2,4	○*1,2,4	○*1,2,4	○*1,2,4	○*1,2,4	○
	RS-232C Isolation Unit		CA3-ISO232-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-232C and RS-422 are switchable).	○	○	○	○	○	○
	RS-485 Isolation Unit		CA3-ISO485-01		Unit for electrically isolating a serial interface signal from the AGP internal current (RS-422 and RS-485 are switchable).	○	○	○	○	○	–
	CF Card Adapter		GP077-CFAD10		Used for read/write of CF Card data via a PC's PCMCIA slot.	○	○	○	○	○	–
	CF Card	64MB	CA3-CFCALL/64MB-01	64MB	Inserted into the AGP unit's CF Card slot. Not available on AGP-3302B.	○	○	○	○	○	–
		128MB	CA3-CFCALL/128MB-01	128MB		○	○	○	○	○	–
		256MB	CA3-CFCALL/256MB-01	256MB		○	○	○	○	○	–
		512MB	CA3-CFCALL/512MB-01	512MB		○	○	○	○	○	–
	PROFIBUS Slave Unit		CA5-PFSALL/EX-01		Expansion Unit for connecting AGP to PROFIBUS network or communicating with a PROFIBUS-DP master.	○	○	○	○	○	○
	Panel Cutout Adapter for AGP-3300 Series		CA4-ATM5-01		Panel cutout adapter for mounting AGP-3300 series in cutout of GP-37W2B.	○	○	○	○	○	○
	Installation Gasket	6 inch	CA3-WPG6-01	5.7 inch for AGP-3300 series	Provides dust and moisture resistance when AGP is installed into a solid panel.	○	○	○	○	○	○
	Connector Cover		CA3-BUSCVR-01		Protects the AGP unit's rear face connector.	○	○	○	○	○	○
	USB Cable Clamp (1 port)		CA5-USBATM-01		USB Cable clamp for 1 port products to prevent disconnection.	○	○	○	○	○	○
	DC Power Supply Connector for Medium-sized Units		CA5-DCCNM-01		Connector for attaching power supply to medium-sized units.	○	○	○	○	○	○
	Installation Fastener		CA3-ATFALL-01		Used to install the AGP into a solid panel.	○	○	○	○	○	○
	Protection Sheet	6 inch	CA3-DFS6-01	5.7 inch for AGP-3300 series	Disposable, dirt-resistant sheet for the AGP unit's screen. (5 sheets/set) (Hard type)	○	○	○	○	○	○

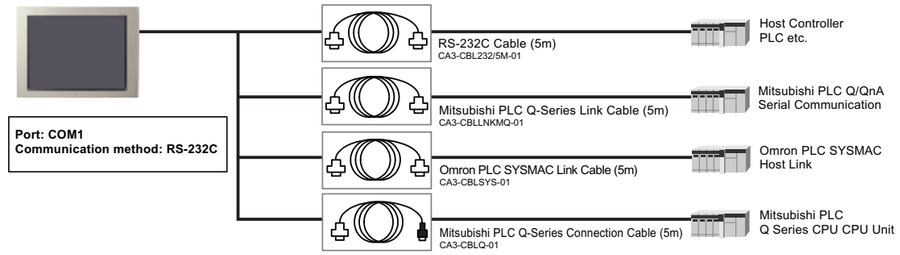
*1. When connecting to COM1, COM conversion adapter (CA3-ADPCOM-01) is required.
*2. Online adapter is required for these cases: 1:1communication.
For use in 1:N, N:1, N:N communication terminal (1 unit, or potentially up to 2 units can be used).
*3. For termination set software to "ON".
*4. 2 port adapter cable (CA3-MDCB11) is required.
*5. When connecting to COM2, COM conversion adapter (CA3-ADPCOM-01) is required.

System Structure

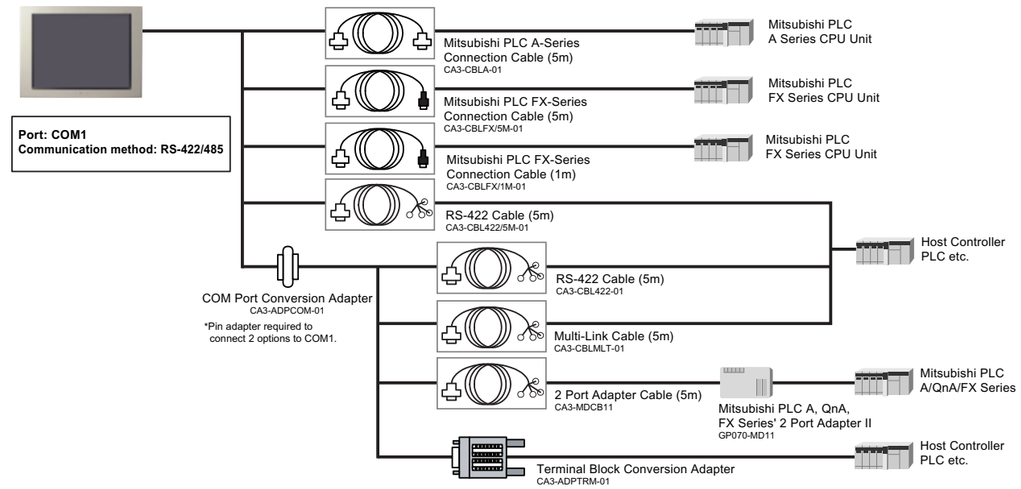
Edit Mode peripherals



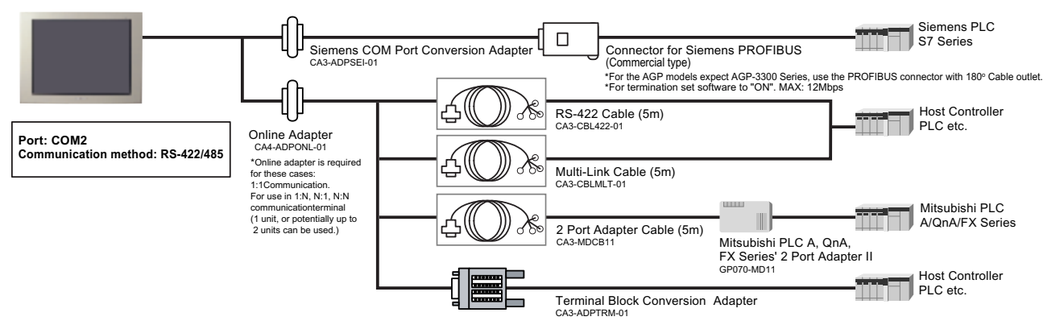
Serial Communication COM1:RS-232C < All AGP3000 Series models. >



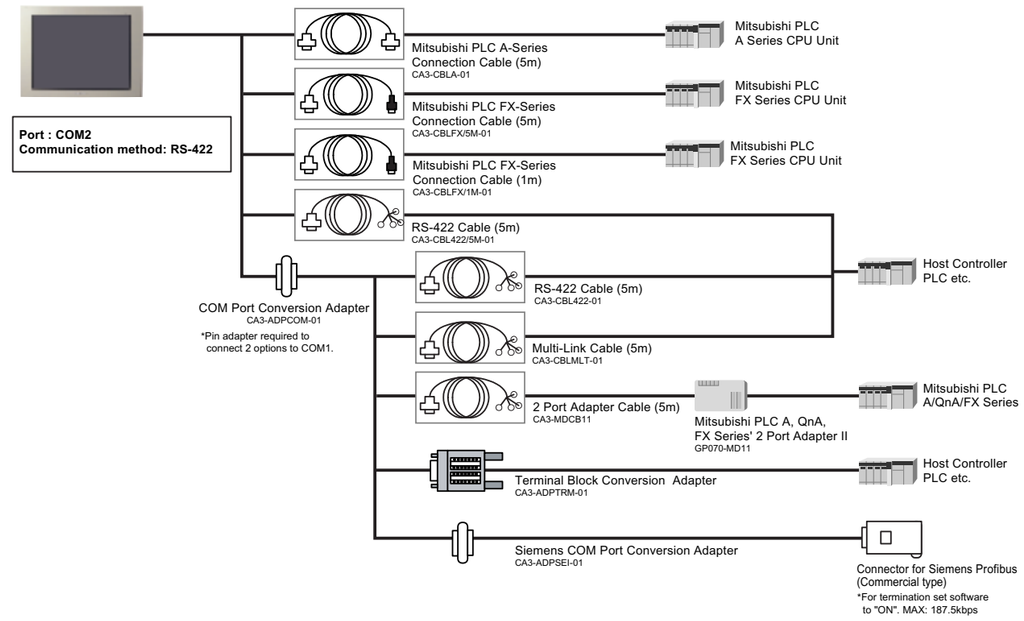
Serial Communication COM1:RS-422/485 < All AGP3000 Series models. >



Serial Communication COM2:RS-422/485 < All AGP3000 Series models except AGP-3302B. >



Serial Communication COM2:RS-422 < AGP-3302B >



Interface < All AGP3000 Series models. >